

YTS-61

July 18, 1984

REMOVAL OF TOPSOIL
FROM
THE OAK RIDGE CIVIC CENTER
GREENBELT SEWER LINE

Health, Safety, Environment and Accountability

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Oak Ridge Y-12 Plant
Oak Ridge, Tennessee 37831
operated by
MARTIN MARIETTA ENERGY SYSTEMS, INC.
for the U. S. Department of Energy
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REMOVAL OF TOPSOIL FROM THE OAK RIDGE CIVIC CENTER

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1. STATEMENT OF PURPOSE AND OBJECTIVES

This work plan has been prepared to describe activities associated with the excavation of top soils previously used for backfill along the new sewer line right-of-way at the Oak Ridge Civic Center, Oak Ridge, Tennessee. At the request of the Department of Energy, the Oak Ridge Associated Universities initiated a sampling program to determine the extent of mercury contamination in top soils used as backfill along the sewer line extending from Tulane Avenue south of the Civic Center to Raccoon Road west of the Civic Center. This soil removal work plan has been prepared by DOE's contractors who will implement the plan, Martin Marietta Energy Systems, Oak Ridge Associated Universities, and Rust Engineering Company. The plan describes how and to what extent the soil will be removed, its method of transport, and interim storage alternatives. Site restoration is also covered.

Development of the selected storage site can be completed by early September 1984, if early agreement is reached on the best storage alternative. Soil removal would begin immediately thereafter and take about six weeks to complete.

2. ESTABLISHED CHAIN OF NOTIFICATION

Several organizations and individuals will be responsible for various phases of this project. It is anticipated that the Environmental Protection Agency will have an on-scene coordinator to monitor the work and verify that it conforms to the work plan. Rust Engineering Company, with D. S. Jones in charge, will be responsible for providing the labor, equipment and materials needed to remove and transport the excavated soil. Industrial Hygiene, Safety and Health Physics functions, such as prescribing safety equipment and monitoring work conditions, will be performed by Y-12 Plant personnel. Movement of the soils to the Y-12 Plant and storage will be coordinated by a member of the Y-12 Health, Safety, Environment and Accountability Division. Clayton Gist, Oak Ridge Associated Universities, will determine the removal zone, verify decontamination of the area and provide any required site information.

The work will begin with notification of the approval to proceed by H. D. Hickman, Department of Energy, to G. G. Fee, Y-12 Plant.

3. CIVIC CENTER ACTIVITIES

3.1 GENERAL

The Oak Ridge Civic Center is bordered to the north by the Oak Ridge Turnpike, to the west by Raccoon Road, to the east by South Tulane Avenue, and to the south by Badger Avenue. The Civic Center, located approximately 2 miles from DOE's Y-12 facility, houses a library, recreation facilities, meeting rooms, and offices. A tributary to the East Fork Poplar Creek flows adjacent to the Civic Center property and is visible from the Civic Center. A footbridge which crosses the creek joins a walkway between the Civic Center and playground. An outdoor theater and a jogging trail are also adjacent to the creek.

3.2 SOIL DESCRIPTIONS

Soil samples were taken according to a grid pattern laid out along the beltway. The centerline of the grid followed the centerline of the beltway with lateral limits of 32.8 feet (10 meters) on each side. This design generally encompassed the width of the beltway; however, the grid was expanded where beltway construction activities exceeded the 32.8 feet (10 meter) lateral limit.

Soil samples were analyzed for total mercury. Those samples containing greater than 50 parts per million total mercury were subjected to multi-element analysis. A total of 821 soil samples from the Civic Center were analyzed for mercury content and 75 additional samples were analyzed for gross alpha, gross beta, uranium, thorium, barium, chromium, arsenic, selenium, cadmium, silver and lead. Analytical results are presented in the Appendix.

Further sampling was done on each grid location where the soil analysis indicated a total mercury concentration greater than 25 parts per million. The additional sampling consisted of a depth profile for total soil mercury at three-inch intervals to a depth of nine inches.

3.3 CLEANUP CRITERIA

Soil from Civic Center sewer line beltways will be removed from locations where the pre-survey (Table 1) shows levels exceeding _____ parts per million (ppm) of total mercury. The rationale for selection of this cleanup level is provided in Attachment _____. There are no evaluations showing other contaminants to be potentially more hazardous than mercury at the levels found in these soils.

A second criterion of 2 ppm total mercury in soil will be

used to determine how much soil to remove from the identified locations. This value is expected to encompass the normal background range in the Oak Ridge area. Removal of soil to this level can be expected to obviate any future potential need to rework the affected areas should final soil removal criteria be more stringent than that selected for this interim action. The use of mercury as a good indicator of the presence of contamination is shown by its correlation (Tables 4 and 5) with other measured pollutants, as well as by its average ratio to background, about 1100 to 1. All other measured contaminants have much lower ratios to background, most being less than 2 to 1 (Table 6). (PCBs, methyl-mercury, selenium, and cadmium levels were low, but ratios to background are not available due to background levels being below-detection limits.)

3.4 SOIL MOVEMENT DESCRIPTION

Excavation of soil from the Civic Center sewer-line greenbelt will be conducted in an orderly and efficient manner. The location and volume of soil to be excavated will determine the most suitable method of excavation. Excavation methods will include the use of heavy excavation equipment (scrapers, front-end loaders, dozers) and hand labor using shovels, picks and other digging devices.

Excavation of soil will be conducted in a manner that will not adversely affect the stability of buildings and other structures in and adjacent to the work area. Existing trees in and adjacent to the work area will be preserved. The proposed boundary limits of the work area shown on the Site Map may be modified on site to facilitate efficient soil removal, protect structures from excavation and removal activities, and to preserve existing trees. Equipment, vehicles and personnel will remain in the designated work area.

The excavation area south of the creek (Area A) will be accessed from South Tulane Avenue. Excavation of top soil in Area A will begin at the western-most point of Area A. Excavation will progress to the east until removal of contaminated soil has been completed. A service road will be constructed in the approximate location shown on the Site Map. Excavated soil will be loaded into dump trucks and transported to the DOE Y-12 facility.

The excavation area north of the creek (Area B) will be accessed from Oak Ridge Turnpike. Excavation in Area B will begin at the eastern-most point of Area B near the Civic Center Building. Excavation will progress to the west until the contaminated soil has been removed. Service roads will be constructed in the approximate location shown on the Site Map.

The small excavation area north of the creek and at the edge of

Raccoon Road will be Area C. Excavation in Area C will begin at the southern-most point and progress to the north until the contaminated soil has been removed.

3.5 VERIFICATION AND CONCURRENCE WITH ON-SCENE COORDINATOR

Verification of the cleanup effort shall be done by analysis of the soils left in place. Soil sampling will be done systematically on the bottom and side of the trench created by soil removal. The systematic soil sampling will be on 32.8 foot (10 meter) intervals on the longitudinal axis and 16.4 foot (5 meter) intervals on the lateral axis. In addition, opportunistic sampling will be done wherever there is reason to believe there is contamination remaining which was not detected by the systematic analysis. Since there is a reasonable correlation between soil uranium and mercury, it is recommended that a walkover radiation survey of the area be conducted to help isolate possible small pockets of contaminated soil. Thus, the opportunistic samples will be collected where the radiation levels are elevated or where soil characteristics (such as pieces of weathered coal or dark soil color) indicate the need.

Soil samples will be collected as soon as an area is clear and accessible. After collection, the samples will be brought to the Oak Ridge Associated Universities laboratory and analyzed as received for soil mercury concentrations. The results will be reviewed by the appropriate parties, and a determination will be made if further cleanup is required. If the samples are analyzed on an as-received basis, the entire cycle, from collection to reporting, should be no more than two days.

3.6 RESTORATION

At the present time, the Civic Center greenbelt sewer line is covered by approximately one foot of topsoil with established grass cover. After excavation has been completed, measures will be taken to restore the area. Actions will include restoration of the vegetation as follows:

1. Testing of the excavated area to ensure that the soil is not contaminated.
2. Backfilling the area to its original elevation.
3. Cultivating the area to promote rapid germination and growth of the seed.
4. Applying commercial lime at the rate of 3 tons/acre.
5. Fertilizing the area to be seeded with commercial grade 15-15-15 fertilizer at the rate of 450 lbs/acre.

6. Seeding the area with Kentucky 31 Fescue at a rate of 3-5 lb/100 sq. ft. and raking in lightly.
7. Mulching the seeded area to prevent erosion and loss of soil moisture.
8. Lightly watering the area.
9. Replacing trees damaged due to excavation; however, every effort will be made to protect the existing trees.

3.7 OPERATING CONDITIONS CONSTRAINTS

As previously stated, the soil which is to be moved contains measurable concentrations of mercury and other constituents which may be hazardous and must be handled with care. Particular care must be exercised in the handling of the soil in the Civic Center area because of the greater potential for interaction with the public and a desire to keep the soil contained in the existing area.

Therefore, removal and storage operations will only be allowed to proceed if on-site conditions will not endanger the public or adjacent property as determined by the responsible health official. This would include requiring that work cease:

1. During and immediately after periods of rain or other precipitation.
2. During periods of high winds when blowing soil may become a problem.
3. During occasions when events at the Civic Center encourage high public attendance.

3.8 WASTE MANIFESTING PROCEDURES

The movement of the excavated material from the loading area at the Civic Center to the Y-12 facility will be documented using a manifest system. The waste will be manifested according to U. S. Environmental Protection Agency and U. S. Department of Transportation regulations.

Although the material has not been determined to be a hazardous waste, the Y-12 Traffic Department will manifest the soil as if it were a hazardous waste. The Y-12 Traffic Department will determine the correct shipping name, hazard class, identification number and label. The U. S. Department of Energy, Y-12 Plant, will be listed as the generator and storage facility. Rust Engineering Company will be listed as the transporter.

The completed manifest forms will be signed by authorized

representatives of DOE Y-12 Plant and Rust Engineering prior to each truckload leaving the loading area at the Civic Center. The forms will then be delivered to the storage area with the excavated material. An authorized representative of DOE Y-12 will sign the manifest forms prior to the placement of the material in the storage area.

The signed original manifest forms will be returned to the generator. Carbon copies of the signed forms will be retained by the transporter and storage facility.

4. STORAGE

4.1 SITE PREPARATION

Three potential temporary storage sites are discussed below. However, concurrent with the development of the temporary storage, a feasibility study is being conducted to determine the need for a more permanent disposal site.

4.1.1 Old Bear Creek Road Storage Area

One possible storage area is located on the far west end of the Y-12 Plant, south of the S-3 ponds and just west of Y-12 Spoil Area #1. The soil in the area is red clay which is used throughout the plant as cover material. Some of the clay from this area will be removed and stockpiled for later use leaving an area which will be suitable for storage. The area is on a hillside and current slopes are relatively steep. After excavation of the site, the slope of the back face will remain relatively steep and the bottom of the pit will be graded to provide positive drainage and ease of access. A layer of boundary material will be placed in the graded area. A diversion drainage ditch will be constructed up slope of the storage area to divert run on from the storage area.

4.1.2 Chestnut Ridge Sediment Disposal Area

An alternative to the old Bear Creek Road Area would be to place the contaminated material in the Chestnut Ridge Sediment Disposal Basin. The sediment disposal basin has previously been used to dispose of the sediment dredged from New Hope Pond. Even though the dredged sediment and excavated contaminated material have similar constituents, the excavated material will be segregated from the dredged sediment in the disposal basin. A layer of boundary material will be used in this area to help accomplish this. A berm will be constructed in the basin to contain the excavated material from the Civic Center in a specific area. A layer of boundary material will be placed in the containment area. Excavated material from the Civic Center will then be placed in the containment area.

4.1.3 Chestnut Ridge Borrow Area

An old borrow area on Chestnut Ridge would also be suitable as a storage area. The borrow area is located within the Y-12 buffer zone, south of the new South Patrol Road and west of the Chestnut Ridge Sediment Disposal Basin. In the past, red clay has been excavated from this area to use as cover material within the plant. Although the area is clear of trees, vegetation covers the area. As part of the

site preparation plan, the vegetation will be cleared from the area. Borrow operations have left the area fairly level and the area will be graded to promote positive drainage. A diversion drainage ditch will be constructed to divert run on from the storage area. A layer of boundary material will be placed in the storage area and the excavated material from the Civic Center will be placed on this layer of boundary material. The access road to the borrow area will be cleared and gravelled for ease of access.

4.2 MATERIAL HANDLING AND PLACEMENT

4.2.1 Old Bear Creek Road Storage Area

The contaminated material will be transported from the Civic Center to the waste pile in dump trucks. The trucks will dump the material onto the layer of boundary materials. The material will be spread on the layer of boundary material and a uniform slope will be maintained. The material will be compacted so as to facilitate positive drainage.

4.2.2 Chestnut Ridge Sediment Disposal Basin

The contaminated material will be transported to the sediment disposal basin in dump trucks. The material will be dumped into a bermed section of the sediment disposal basin, which will be oriented so that the contaminated material can be worked toward the rim of the basin. Maximum depth of the material will be determined by the height of the berm.

4.2.3 Chestnut Ridge Borrow Area

Contaminated material will be transported to the site in dump trucks. Material will be dumped on the designated area. The material will then be spread over the layer of boundary material and a uniform grade will be maintained. The material will be compacted to aid in volume reduction and to promote positive drainage.

4.3 PERSONNEL MONITORING/PROTECTION

Proper measures will be taken to ensure that a safe working environment will be provided for personnel involved in the excavation, transportation and storage of the contaminated material. These procedures will include the following:

1. A representative from Y-12 Industrial Hygiene will be present at the work area during the removal phase.

2. All personnel who are operating equipment or have potential contact with the soil will wear protective clothing, including gloves and safety shoes.
3. 3M mercury disposable masks will be worn if deemed necessary by the representative from Industrial Hygiene.
4. Direct contact with the contaminated soil will be minimized.
5. Good personal hygiene, such as washing hands before eating, drinking, or smoking will be observed.
6. No food or tobacco will be allowed in the work area.
7. All applicable OSHA and EPA safety regulations will apply.
8. Rust personnel may be required to wear sampling devices during the work day.
9. These requirements are subject to change after evaluation of the work area by Industrial Hygiene.

As part of the routine medical program, all Y-12 personnel are scheduled for regular physical examinations throughout the year in an effort to consistently monitor personnel health. All Y-12 and Rust Engineering personnel coming in contact with the contaminated material will be furnished with mercury detectors and the area will be monitored by the Industrial Hygiene representative. Safety specifications with respect to Rust personnel are included in the Appendix.

4.4 CONTAMINATION CONTROL

4.4.1 Civic Center

Topsoil will be excavated from the designated areas using excavation equipment (scrapers, front-end loaders), loaded onto dump trucks, and transported to a temporary storage area near the Y-12 facility. During the process of removing the material from the site, precautions must be taken to minimize the spreading of the contaminated material into the creek, the uncontaminated adjacent soil, the street, or any area that might affect the people using the excavation and loading will be achieved by the following:

1. Barricades and warning signs will be posted to secure the active work area. Warning signs shall read:
Notice: Construction Area, Keep Out.
2. Excavated soil will not be left exposed for extended periods. Stockpiling of the excavated material will

not be allowed.

3. The excavated area will be tested immediately after excavation and backfilled after verification that all contaminated soil has been removed.
4. Free liquids will be allowed to dewater from the contaminated material before loading into the dump trucks.
5. Haul trucks will avoid muddy areas so as to eliminate mud and soil on streets and roads. Service roads and loading areas will be gravelled as required to reduce "track out" onto the streets.
6. Truck tires and other surfaces will be cleaned with a shovel and broom before each truck leaves the site.
7. Care will be taken during loading to minimize spillage of excavated material. Any spillage will be picked up.
8. Prior to any excavation, silt fences will be placed adjacent to the downslope edge of the trench; however, silt fences shall always be placed between the edge of the excavation and the creek edge as shown on the attached drawing to minimize silt transportation.
9. Dust control (sprinkling) will be used as required by Industrial Hygiene to prevent the dispersal of dust from the excavation site.
10. Haul trucks shall be restricted to marked service roads in the Civic Center area.
11. Personnel involved in the operations at the Civic Center will not be allowed inside the Civic Center. Water and sanitary facilities will be provided on site.

4.4.2 Transport

Transportation of the contaminated soil from the Civic Center area to the temporary storage facility at Y-12 will be done so that there is no loss of material en route. The procedures will be as follows:

1. All dump trucks or other vehicles leaving the Civic Center loading area must be sufficiently clean so that contaminated soil will not be scattered by the tires or dropped from the vehicle body. Loose soil on the tires and outside of the dump bed will be removed prior to the truck leaving the work area.

2. Each dump truck will be provided with a polyethylene liner which will be replaced as often as necessary to maintain the liner integrity.
3. The dump trucks must be filled so that:
 - a. the level of the dirt is below the sideboards, and
 - b. a tarpaulin or other cover is used to prevent the wind or road vibrations from knocking dirt from the dump truck.
4. Haul routes shall be chosen to minimize the possibility of interaction with the public.
5. Travel routes will be monitored by the on-scene coordinator and the construction supervisor and in the event of spillage or tracking of soil onto the public streets or roads, the soil shall be collected by sweeping and hauled to the storage area.

4.4.3 Site

4.4.3.1 Old Bear Creek Road Storage Area. The Old Bear Creek Storage Area is located on the far west end of the plant, south of S-3 ponds and west of the Y-12 Spoil Area #1. The site is immediately adjacent to a restricted travel road and other manned and unmanned facilities. In order to maintain proper contamination control, it will be necessary to:

1. Monitor all vehicles as they leave the site for soil on the tires or on the outside of the vehicle and remove and place with the contaminated soil.
2. Maintain flagging and barricades with warning signs to secure the storage site during placement of material. Warning signs shall read, Notice: Construction Area, Keep Out.
3. Provide drainage facilities to divert runoff from the site and collect any drainage from the storage area.
4. Maintain a dry, gravel haul road into the storage area.
5. Cover all exposed faces with plastic at the end of each working day or when adverse weather conditions warrant to prevent wind and

rain dispersal.

6. = Empty the dump trucks so that all haul material is deposited in the storage area and not on the service road. The tailgate of the dump trucks will be fastened prior to leaving the dumping point.

4.4.3.2 Chestnut Ridge Sediment Disposal Basin. The Chestnut Ridge Sediment Disposal Basin has been used for several years as a dewatering and disposal basin for sediments dredged from New Hope pond. The type of contaminants found in the New Hope Pond sediment should be similar to those found in the soils at the Civic Center. Therefore, the storage of the sediments at the Chestnut Ridge Sediment Disposal Basin will not be seriously detrimental to the existing condition of the Chestnut Ridge Sediment Disposal Basin.

The Chestnut Ridge Sediment Disposal Basin is located in a secure area at the Y-12 Plant behind a locked gate. This isolation will help to minimize the chance of accidental contamination of the public or public property. However, proper precautions must be maintained to ensure that the chance of contamination outside of the Chestnut Ridge Sediment Disposal Basin is minimal. These precautions would include:

1. Monitoring the condition of the dump trucks and other vehicles as they leave the Chestnut Ridge Sediment Disposal Basin area. Prior to vehicles leaving the storage area, soil on tires or on the outside of the vehicle will be removed and placed in the storage area.
2. Emptying the dump trucks so all of the haul material is deposited in the basin and not on the rim or service road. The tailgate will be fastened prior to leaving the dumping point.
3. Maintaining a good, dry working surface around the basin.

4.4.3.3 Chestnut Ridge Borrow Area. Access to the borrow area is controlled by a locked gate. This will minimize the possibility of accidental contamination of the public or public property. Other contamination control measures will include:

1. Monitor all vehicles as they leave the site for soil on the tires or on the outside of the vehicle and remove and place with the contaminated soil.
2. Provide drainage facilities to divert runoff from the site and to aid in erosion control.
3. Maintain a dry, gravel haul road into the storage area.
4. Cover all exposed faces with plastic at the end of each working day or when adverse weather conditions warrant to prevent wind and rain dispersal.
5. Empty the dump trucks so that all haul material is deposited in the storage area and not on the service road. The tailgate of the dump trucks will be fastened prior to leaving the dumping point.

4.5 COVER/CLOSURE ACTIVITY

Closure of the area selected to store the contaminated soil will be accomplished by using a layer of boundary material and protective cover to minimize infiltration, erosion, leachate formation and the post-closure escape of leachate, contaminated rainfall or waste constituents. A layer of boundary material will be placed over the excavated material to prevent seepage into and/or out of the contaminated material. The slopes will be uniformly graded to provide positive drainage and slope stability. Six inches of top soil will be placed over the boundary material and the graded slope will be seeded and mulched to prevent erosion. The cover material will have a uniform slope with no depressions or swales that would allow "ponding" of water.

4.6 POST CLOSURE MONITORING

The storage site will be the responsibility of the Y-12 Plant until the stored material is removed for alternate storage or disposal. Y-12 personnel will perform all necessary maintenance, repairs and monitoring at the site. Since the storage site is a temporary one, additional groundwater monitoring wells will not be installed. The existing monitoring wells will be regularly monitored for indications of sub-surface migration of the contaminants.

Table 1

Civic Center Soil Mercury Data

The entry in the location column represents the grid identification and the parenthetical number the grid coordinates for a specific sample within the grid. Often there are two entries in the results column, this represents multiple analysis from a given sample to determine heterogeneity.

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESU REPO</u>
83-0733	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,0)	soil/ outside flood plain surface	285. 260. 400.	ppm ppm ppm
83-0734	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	soil/ outside flood plain surface	390.	ppm
83-0735	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	soil/ outside flood plain surface	270. 220.	ppm ppm
83-0736	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,30)	soil/ outside flood plain surface	125. 74.	ppm ppm
83-0737	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,40)	soil/ outside flood plain surface	330. 270.	ppm ppm
83-0738	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	soil/ outside flood plain surface	190. 89.	ppm ppm
83-0739	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ outside flood plain surface	170. 80.	ppm ppm
83-0740	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ outside flood plain surface	210. 190.	ppm ppm

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>
83-0741	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,80)	soil/ outside flood plain surface	5.7 ppm 16. ppm 10/2'
83-0742	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,90)	soil/ outside flood plain surface	5.6 ppm 3.1 ppm 10/2'
83-0743	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,100)	soil/ outside flood plain surface	2.8 ppm 2.2 ppm 10/2'
83-0744	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,110)	soil/ outside flood plain surface	2.2 ppm 10/2'
83-0745	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,120)	soil/ outside flood plain surface	7.6 ppm 10/2'
83-0746	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,130)	soil/ outside flood plain surface	-0.3 ppm .29 ppm 10/2'
83-0747	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,140)	soil/ outside flood plain surface	
83-0748	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,140)	soil/ outside flood plain surface	

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESU REPO</u>
83-0749	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,130)	soil/ outside flood plain surface	.34 ppm	10/2
83-0750	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,120)	soil/ outside flood plain surface	.34 ppm	10/2
83-0751	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,110)	soil/ outside flood plain surface	.41 ppm	10/2
83-0752	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,100)	soil/ outside flood plain surface	.44 ppm	10/2
83-0753	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,90)	soil/ outside flood plain surface	.34 ppm	10/2
83-0754	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,80)	soil/ outside flood plain surface	.30 ppm	10/2
83-0755	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,70)	soil/ outside flood plain surface	.29 ppm	10/2
83-0756	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,60)	soil/ outside flood plain surface	.31 ppm	10/2

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPOF</u>
83-0757	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,50)	soil/ outside flood plain surface	.32 ppm	10/27
83-0758	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,40)	soil/ outside flood plain surface	.47 ppm	10/27
83-0759	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,30)	soil/ outside flood plain surface	.33 ppm	10/27
83-0760	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,20)	soil/ outside flood plain surface	-0.3 ppm	10/27
83-0761	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,10)	soil/ outside flood plain surface	.32 ppm	10/27
83-0762	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,10)	soil/ outside flood plain surface	120. ppm	10/27
83-0763	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,20)	soil/ outside flood plain surface	.94 ppm	10/27
83-0764	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,30)	soil/ outside flood plain surface	120. ppm	10/27

May 3, 1984

<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0765	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,40)	soil/ outside flood plain surface	4.8 ppm	10/27/
83-0766	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,50)	soil/ outside flood plain surface	235. ppm	10/20/
83-0767	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,60)	soil/ outside flood plain surface	97. ppm	10/20/
83-0768	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,70)	soil/ outside flood plain surface	125. ppm	10/20
83-0769	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,80)	soil/ outside flood plain surface	45. ppm	
83-0770	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,90)	soil/ outside flood plain surface	2.0 ppm	10/20
83-0771	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,100)	soil/ outside flood plain surface	.83 ppm	10/20
83-0772	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,110)	soil/ outside flood plain surface	.31 ppm	10/20

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESU REPO</u>
83-0773	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,120)	soil/ surface	.31 ppm	10/2
83-0774	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,130)	soil/ surface	.29 ppm	10/2
83-0775	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,140)	soil/ surface	.91 ppm	10/2
83-0776	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,10)	soil/ surface	350. ppm	10/;
83-0777	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,20)	soil/ surface	45. ppm	10/;
83-0778	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,30)	soil/ surface	19. ppm	10/;
83-0779	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ surface	56. ppm	10/;
83-0780	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,50)	soil/ surface	37. ppm	10/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0781	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,60)	soil/ outside flood plain surface	43. ppm	10/27/
83-0782	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,70)	soil/ outside flood plain surface	67. ppm	10/27/
83-0783	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,80)	soil/ outside flood plain surface	39. ppm	10/27/
83-0784	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,90)	soil/ outside flood plain surface	8.6 ppm	10/27/
83-0785	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,100)	soil/ outside flood plain surface	16. ppm	10/27/
83-0786	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,110)	soil/ outside flood plain surface	13. ppm	10/27/
83-0787	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,120)	soil/ outside flood plain surface	2.8 ppm	10/27/
83-0788	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,130)	soil/ outside flood plain surface	1.8 ppm	10/27/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESUL REPO!</u>
83-0789	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,140)	soil/ outside flood plain surface	.48. ppm	10/2/
83-0790	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,140)	soil/ outside flood plain surface	.29 ppm	10/2/
83-0791	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,130)	soil/ outside flood plain surface	.33 ppm	10/2/
83-0792	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,120)	soil/ outside flood plain surface	.27 ppm	10/2
83-0793	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,110)	soil/ outside flood plain surface	.70. ppm	10/2
83-0794	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,100)	soil/ outside flood plain surface	.48 ppm	10/2
83-0795	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,90)	soil/ outside flood plain surface	.2.0 ppm	10/2
83-0796	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,80)	soil/ outside flood plain surface	.270. ppm 200. ppm	10/2

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0797	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,70)	soil/ outside flood plain surface	3.0 ppm	10/27/
83-0798	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,60)	soil/ outside flood plain surface	6.2 ppm	10/27/
83-0799	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,50)	soil/ outside flood plain surface	73. ppm	10/27/
83-0800	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,40)	soil/ outside flood plain surface	12. ppm	10/27/
83-0801	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,30)	soil/ outside flood plain surface	11. ppm	10/27/
83-0802	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,20)	soil/ outside flood plain surface	10. ppm	10/27/
83-0803	10/18/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,10)	soil/ outside flood plain surface	45. ppm	10/27/
83-0804	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,145)	soil/ outside flood plain surface	36. ppm	10/27/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESUL REPOR
83-0805	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,165)	soil/ outside flood plain surface	1.8 ppm	10/27
83-0806	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,175)	soil/ outside flood plain surface	.29 ppm	10/27
83-0807	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,185)	soil/ outside flood plain surface	.29 ppm	10/27
83-0808	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,188)	soil/ outside flood plain surface	.23 ppm	10/27
83-0809	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,185)	soil/ outside flood plain surface	.30 ppm	10/27
83-0810	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,175)	soil/ outside flood plain surface	3.8 ppm	10/27
83-0811	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,165)	soil/ outside flood plain surface	70. ppm	10/27
83-0812	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,155)	soil/ outside flood plain surface	.65 ppm	10/27

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESU) REPO </u>
83-0813	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,145)	soil/ outside flood plain surface	1.4 ppm	10/2
83-0814	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,145)	soil/ outside flood plain surface	12. ppm	10/2
83-0815	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,155)	soil/ outside flood plain surface	440. ppm	10/2
83-0816	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,165)	soil/ outside flood plain surface	4.0 ppm	10/2
83-0817	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,175)	soil/ outside flood plain surface	.46 ppm	10/2
83-0818	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,185)	soil/ outside flood plain surface	71. ppm	10/2
83-0819	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,185)	soil/ outside flood plain surface	.22 ppm	10/2
83-0820	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,175)	soil/ outside flood plain surface	.18 ppm	10/2

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	REPORT DATE
83-0821	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,165)	soil / outside flood plain surface	.75 ppm	10/27
83-0822	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,155)	soil / outside flood plain surface	.510 ppm	10/27
83-0823	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,145)	soil / outside flood plain surface	.420 ppm	10/27
83-0824	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,145)	soil / outside flood plain surface	.15 ppm	10/27
83-0825	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,155)	soil / outside flood plain surface	.26 ppm	10/27
83-0826	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,165)	soil / outside flood plain surface	.39 ppm	10/27
83-0827	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,175)	soil / outside flood plain surface	.27 ppm	10/27
83-0836	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-29,150)	soil / outside flood plain surface	.44 ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-0837	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-25,150)	soil/ outside flood plain surface	380. 340.	ppm ppm
83-0838	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-20,150)	soil/ outside flood plain surface	410. 360.	ppm ppm
83-0839	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-15,150)	soil/ outside flood plain surface	390. 200.	ppm ppm
83-0840	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,150)	soil/ outside flood plain surface	450. 400.	ppm ppm
83-0841	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,150)	soil/ outside flood plain surface	480. 440.	ppm ppm
83-0842	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,150)	soil/ outside flood plain surface	390. 210.	ppm ppm
83-0843	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,150)	soil/ outside flood plain surface	23.	ppm
83-0844	10/25/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (15,150)	soil/ outside flood plain surface	.42	ppm

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESON/ REPO </u>
83-0845	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,0)	soil/ outside flood plain	330. ppm 200. ppm	11/3
83-0846	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,10)	soil/ surface	.26 ppm	11/3
83-0847	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,20)	soil/ outside flood plain	.29 ppm	11/3
83-0848	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,30)	soil/ surface	.16 ppm	11/3
83-0849	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,40)	soil/ outside flood plain	1.7 ppm	11/3
83-0850	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,50)	soil/ surface	.44 ppm	11/3
83-0851	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,60)	soil/ surface	.27 ppm	11/3
83-0852	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,70)	soil/ surface	.18 ppm	11/3

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0853	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,80)	soil/ outside flood plain surface	-0.3 ppm .11 ppm	11/3/8
83-0854	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,90)	soil/ outside flood plain surface	.09 ppm	11/3/8
83-0855	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,100)	soil/ outside flood plain surface	.12 ppm	11/3/8
83-0856	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,110)	soil/ outside flood plain surface	.05 ppm	11/3/8
83-0857	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,120)	soil/ outside flood plain surface	-0.3 ppm .16 ppm	11/3/8
83-0858	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,130)	soil/ outside flood plain surface	.10 ppm	11/3/8
83-0859	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,140)	soil/ outside flood plain surface	.12 ppm	11/3/8
83-0860	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,150)	soil/ outside flood plain surface	.11 ppm	11/3/8

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	<u>RESULTS</u>		RESULT/ REPORT
					ppm	11/3/	
83-0861	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,159)	soil/ outside flood plain surface	8.9	ppm	11/3/
83-0862	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,159)	soil/ outside flood plain surface	.30	ppm	11/3/
83-0863	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,150)	soil/ outside flood plain surface	.13	ppm	11/3/
83-0864	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,140)	soil/ outside flood plain surface	.10	ppm	11/3/
83-0865	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,130)	soil/ outside flood plain surface	-0.3	ppm	11/3/
83-0866	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,120)	soil/ outside flood plain surface	.12	ppm	11/3/
83-0867	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,110)	soil/ outside flood plain surface	.10	ppm	11/3/
83-0868	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,100)	soil/ outside flood plain surface	.14	ppm	11/3/
					.15	ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESUL REP OF</u>
83-0869	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,90)	soil/ outside flood plain surface	.19 ppm	11/3/
83-0870	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,80)	soil/ outside flood plain surface	.33 ppm	11/3/
83-0871	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,70)	soil/ outside flood plain surface	.08 ppm	11/3/
83-0872	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,60)	soil/ outside flood plain surface	.22 ppm	11/3/
83-0873	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,50)	soil/ outside flood plain surface	.23 ppm	11/3/
83-0874	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,40)	soil/ outside flood plain surface	.24 ppm	11/3/
83-0875	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,30)	soil/ outside flood plain surface	.27 ppm	11/3/
83-0876	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,20)	soil/ outside flood plain surface	.62 ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-0877	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,10)	soil/ surface	.30 ppm	11/3/
83-0878	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-12,10)	soil/ creek bank surface	.27 ppm	11/3/
83-0879	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,20)	soil/ creek bank surface	.34 ppm	11/3/
83-0880	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,30)	soil/ surface	.35 ppm	11/3/
83-0881	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,40)	soil/ surface	.19 ppm	11/3/
83-0882	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,50)	soil/ surface	.06 ppm	11/3/
83-0883	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,60)	soil/ surface	.19 ppm	11/3/
83-0884	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,70)	soil/ surface	.09 ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0885	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,80)	soil/ outside flood plain surface	.10 ppm	11/3/
83-0886	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,90)	soil/ outside flood plain surface	.16 ppm	11/3/
83-0887	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,100)	soil/ outside flood plain surface	.15 ppm	11/3/
83-0888	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,110)	soil/ outside flood plain surface	.18 ppm	11/3/
83-0889	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,120)	soil/ outside flood plain surface	.16 ppm	11/3/
83-0890	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,130)	soil/ outside flood plain surface	.13 ppm	11/3/
83-0891	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,140)	soil/ outside flood plain surface	.10 ppm	11/3/
83-0892	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,150)	soil/ outside flood plain surface	.16 ppm	11/3/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	RESULTS	
				TYPE	REPORT
83-0893	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,159)	soil/ outside flood plain surface	.16 ppm 11/3/
83-0894	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,159)	soil/ outside flood plain surface	1.4 ppm 11/3/
83-0895	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,150)	soil/ outside flood plain surface	.11 ppm 11/3/
83-0896	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,140)	soil/ outside flood plain surface	.24 ppm 11/3/
83-0897	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,130)	soil/ outside flood plain surface	.14 ppm 11/3/
83-0898	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,120)	soil/ outside flood plain surface	.10 ppm 11/3/
83-0899	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,110)	soil/ outside flood plain surface	.08 ppm 11/3/
83-0900	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,100)	soil/ outside flood plain surface	.09 ppm 11/3/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-0901	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,90)	soil/ outside flood plain surface	.10 ppm	11/3/
83-0902	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,80)	soil/ outside flood plain surface	.15 ppm	11/3/
83-0903	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,70)	soil/ outside flood plain surface	.24 ppm	11/3/
83-0904	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,60)	soil/ outside flood plain surface	.31 ppm	11/3/
83-0905	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,50)	soil/ outside flood plain surface	.31 ppm	11/3/
83-0906	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,40)	soil/ outside flood plain surface	.29 ppm	11/3/
83-0907	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,30)	soil/ outside flood plain surface	.52 ppm	11/3/
83-0908	10/25/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,20)	soil/ outside flood plain surface	.25 ppm	11/3/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-0909	10/25/83	city of Oak Ridge	Civic Ctr. & Fitness Track (5,10)	soil/ outside flood plain	.19 ppm	11/3/8
83-0910	10/25/83	city of Oak Ridge	Civic Ctr. & Fitness Track (5,0)	soil/ outside flood plain	.26 ppm	11/3/8
83-0911	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,0)	soil/ outside flood plain	1.3 ppm	11/3/8
83-0912	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,10)	soil/ outside flood plain	.15 ppm	11/3/8
83-0913	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,20)	soil/ outside flood plain	.17 ppm	11/3/8
83-0914	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,30)	soil/ outside flood plain	.61 ppm	11/3/8
83-0915	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,40)	soil/ outside flood plain	.38 ppm	11/3/8
83-0916	10/26/83	city of Oak Ridge	Civic Ctr. & Fitness Track (15,50)	soil/ outside flood plain	.24 ppm	11/3/8

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-0917	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,60)	soil/ outside flood plain surface	.27 ppm	11/3/
83-0918	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,70)	soil/ outside flood plain surface	.40 ppm	11/3/
83-0919	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,80)	soil/ outside flood plain surface	.28 ppm	11/3/
83-0920	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,90)	soil/ outside flood plain surface	.23 ppm	11/3/
83-0921	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,100)	soil/ outside flood plain surface	.23 ppm	11/3/
83-0922	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,110)	soil/ outside flood plain surface	.18 ppm	11/3/
83-0923	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,120)	soil/ outside flood plain surface	.20 ppm	11/3/
83-0924	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,130)	soil/ outside flood plain surface	.72 ppm	11/3/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	RESULTS		RESUL. REPOR.
				TYPE	RESULTS	
83-0925	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,130)	soil/ outside flood plain	.34 ppm	11/3/
83-0926	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,130)	soil/ outside flood plain	.31 ppm	11/3/
83-0927	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,140)	soil/ outside flood plain	.28 ppm	11/3/
83-0928	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,140)	soil/ outside flood plain	.21 ppm	11/3/
83-0929	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,150)	soil/ outside flood plain	.19 ppm	11/3/
83-0930	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (12,150)	soil/ outside flood plain	.34 ppm	11/3/
83-0931	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (7,159)	soil/ outside flood plain	.54 ppm	11/3/
83-0932	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,159)	soil/ outside flood plain	3.9 ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>RESULTS</u>	<u>RESUI REPOR</u>
				<u>ppm</u>	
83-0933	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,150)	.37	11/3/
83-0934	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,140)	.17	11/3/
83-0935	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,130)	.09	11/3/
83-0936	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,120)	.10	11/3/
83-0937	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,110)	.16	11/3/
83-0938	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,100)	.11	11/3/
83-0939	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,90)	.19	11/3/
83-0940	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,80)	.11	11/3/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT: REPORT!
83-0941	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,70)	soil/ outside flood plain surface	.12 ppm	11/3/8:
83-0942	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,60)	soil/ outside flood plain surface	.37 ppm	11/3/8:
83-0943	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,50)	soil/ outside flood plain surface	.17 ppm	11/3/8:
83-0944	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,40)	soil/ outside flood plain surface	.15 ppm	11/3/8:
83-0945	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,30)	soil/ outside flood plain surface	.13 ppm	11/3/8
83-0946	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,20)	soil/ outside flood plain surface	.31 ppm	11/3/8:
83-0947	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,10)	soil/ outside flood plain surface	.38 ppm	11/3/8
83-0948	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-19,30)	soil/ outside flood plain surface	.21 ppm	11/3/8

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT DATE</u>
83-0949	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,40)	soil/ outside flood plain surface	.1.2 ppm	11/3/1
83-0950	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,50)	soil/ outside flood plain surface	.21 ppm	11/3/1
83-0951	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,60)	soil/ outside flood plain surface	.19 ppm	11/3/1
83-0952	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-25,60)	soil/ outside flood plain surface	.30 ppm	11/3/1
83-0953	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-25,50)	soil/ outside flood plain surface	.30 ppm	11/3/1
83-0954	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,0)	soil/ outside flood plain surface	.12 ppm	11/3/1
83-0955	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,10)	soil/ outside flood plain surface	1.1 ppm	11/3/1
83-0956	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,20)	soil/ outside flood plain surface	.11 ppm	11/3/1

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-0958	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,30)	soil/ outside flood plain	.14 ppm	11/3/1
83-0959	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,40)	soil/ outside flood plain	.26 ppm	11/3/1
83-0960	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,50)	soil/ outside flood plain	.29 ppm	11/3/1
83-0961	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,60)	soil/ outside flood plain	.29 ppm	11/3/1
83-0962	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,70)	soil/ outside flood plain	.60 ppm	11/17
83-0963	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (25,70)	soil/ outside flood plain	.24 ppm	11/3/1
83-0964	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,120)	soil/ outside flood plain	.39 ppm	11/3/1
83-0965	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,110)	soil/ outside flood plain	.46 ppm	11/3/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0966	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,100)	soil/ surface	.23 ppm	11/3/
83-0967	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,90)	soil/ surface	.61 ppm	11/3/
83-0968	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,80)	soil/ surface	.36 ppm	11/3/
83-0969	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,70)	soil/ surface	.33 ppm	11/3/
83-0970	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,60)	soil/ surface	.35 ppm	11/17
83-0971	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,50)	soil/ surface	.34 ppm	11/3/
83-0972	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,40)	soil/ surface	.23 ppm	11/3/
83-0973	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,30)	soil/ surface	1.2 ppm	11/3/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-0974	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,20)	soil/ outside flood plain	.24 ppm	11/3/
83-0976	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,10)	soil/ surface	.09 ppm	11/3/
83-0977	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,0)	soil/ surface	.21 ppm	11/3/
83-0978	10/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,155)	soil/ surface	420. ppm	10/2/
83-0979	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-25,159)	soil/ surface	420. ppm	11/3
83-0980	10/26/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,159)	soil/ surface	.20 ppm	11/3
83-0981	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,0)	soil/ outside flood plain	300. ppm	11/3
83-0982	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,0)	soil/ outside flood plain	96. ppm	11/3
				0-3 in.		
				3-6 in.		

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0983	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	soil/ outside flood plain	150. 170.	ppm ppm
83-0984	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	0-3 in.	0-3 in.	11/10
83-0985	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	soil/ outside flood plain	150. 110.	ppm ppm
83-0986	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	3-6 in.	180.	ppm
83-0987	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	soil/ outside flood plain	180. 190.	ppm ppm
83-0988	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,30)	6-9 in.	100. 140.	ppm ppm
83-0989	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,40)	0-3 in.	100. 140.	11/3/ 11/3/
83-0990	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	0-3 in.	75. 59.	ppm ppm
				soil/ outside flood plain	230. 180.	ppm ppm
				soil/ outside flood plain	24.	ppm

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0991	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	soil/ outside flood plain	20. ppm	11/3/1
83-0992	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ outside flood plain	3-6 in.	11/3/
83-0993	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ outside flood plain	0-3 in.	31. ppm
83-0994	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ outside flood plain	3-6 in.	42. ppm
83-0995	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ outside flood plain	0-3 in.	1.9 ppm
83-0996	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ outside flood plain	3-6 in.	12. ppm
83-0997	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,0)	soil/ outside flood plain	6-9 in.	260. ppm
83-0998	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,0)	soil/ outside flood plain	3-6 in.	240. ppm
					320. ppm	11/10
					310. ppm	11/17
					6-9 in.	

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-0999	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	soil/ outside flood plain	90.	ppm 11/17
83-1000	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,10)	soil/ outside flood plain	180.	ppm 11/17
83-1001	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,10)	soil/ outside flood plain	16.	ppm 11/10
83-1002	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,10)	soil/ outside flood plain	3.6	ppm 11/10
83-1003	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,10)	soil/ outside flood plain	9.3	ppm 11/11
83-1004	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	soil/ outside flood plain	46.	ppm 11/17
83-1005	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	soil/ outside flood plain	59.	ppm 11/17
83-1006	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,20)	soil/ outside flood plain	79.	ppm 11/17

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESUL. REPOR.</u>
83-1007	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,10)	soil/ outside flood plain	13. ppm	11/10
83-1008	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,10)	soil/ outside flood plain 0-3 in.	4.3 ppm	11/10
83-1009	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,10)	soil/ outside flood plain 3-6 in.	20. ppm	11/17
83-1010	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,30)	soil/ outside flood plain 6-9 in.	45. ppm	11/17
83-1011	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,30)	soil/ outside flood plain 0-3 in.	38. ppm	11/1
83-1012	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,30)	soil/ outside flood plain 3-6 in.	22. ppm	11/1
83-1013	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,50)	soil/ outside flood plain 0-3 in.	13. ppm	11/1
83-1014	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,50)	soil/ outside flood plain 3-6 in.	3.3 ppm	11/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-1015	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,50)	soil/ outside flood plain	1.2 ppm	11/17
83-1016	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,40)	soil/ outside flood plain	170 ppm 200 ppm	11/17
83-1017	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,40)	soil/ outside flood plain	86 ppm	11/17
83-1018	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,40)	soil/ outside flood plain	74 ppm	11/17
83-1019	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	soil/ outside flood plain	18 ppm	11/17
83-1020	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	soil/ outside flood plain	42 ppm	11/17
83-1021	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,50)	soil/ outside flood plain	25 ppm	11/17
83-1022	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ outside flood plain	29 ppm	11/17

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-1023	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ outside flood plain	16. ppm	11/17
83-1024	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,60)	soil/ 3-6 in.	7.6 ppm	11/16
83-1025	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ 6-9 in.	18. ppm	11/17
83-1026	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ 0-3 in.	28. ppm	11/17
83-1027	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,70)	soil/ 3-6 in.	71. ppm	11/17
83-1028	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,155)	soil/ 6-9 in.	340. ppm	11/17
83-1029	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,155)	soil/ 0-3 in.	360. ppm	11/17
83-1030	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,155)	soil/ 3-6 in.	90. ppm	11/17
					76. ppm	11/17

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-1031	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,155)	soil/ outside flood plain 0-3 in.	7.5 ppm	11/17/
83-1032	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,155)	soil/ outside flood plain 3-6 in.	.74 ppm	11/17/
83-1033	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-10,155)	soil/ outside flood plain 6-9 in.	.37 ppm	11/17/
83-1034	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,155)	soil/ outside flood plain 0-3 in.	290. ppm	11/17/
83-1035	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,155)	soil/ outside flood plain 3-6 in.	68. ppm	11/17/
83-1036	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,155)	soil/ outside flood plain 6-9 in.	280. ppm	11/17/
83-1037	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,155)	soil/ outside flood plain 0-3 in.	110. ppm	11/17/
83-1038	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,155)	soil/ outside flood plain 3-6 in.	25. ppm	11/17

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1040	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,155)	soil outside flood plain 6-9 in.	90. ppm	11/17/
83-1041	10/28/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,145)	soil/ outside flood plain 0-3 in.	15. ppm	11/17/
83-1042	10/28/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,145)	soil/ outside flood plain 3-6 in.	10. ppm	11/17/
83-1043	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,30)	soil/ outside flood plain 6-9 in.	14. ppm	11/17/
83-1044	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,30)	soil/ outside flood plain 0-3 in.	12. ppm	11/17/
83-1045	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,30)	soil/ outside flood plain 3-6 in.	10. ppm	11/17/
83-1046	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,50)	soil/ outside flood plain 6-9 in.	38. ppm	11/17/
				0-3 in.		

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1047	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,50)	soil/ outside flood plain 3-6 in.	6.0 ppm	11/10,
83-1048	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,50)	soil/ outside flood plain 6-9 in.	5.7 ppm	11/17
83-1049	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,60)	soil/ outside flood plain 0-3 in.	13. ppm	11/17
83-1050	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,60)	soil/ outside flood plain 3-6 in.	17. ppm	11/10
83-1051	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,60)	soil/ outside flood plain 6-9 in.	11. ppm	11/10
83-1052	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,70)	soil/ outside flood plain 0-3 in.	33. ppm	11/10
83-1053	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,70)	soil/ outside flood plain 3-6 in.	14. ppm	11/17
83-1054	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (8,70)	soil/ outside flood plain 6-9 in.	18. ppm	11/17

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-1055	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,10)	soil / outside flood plain	86. ppm	11/10
83-1056	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,10)	soil / outside flood plain	0-3 in.	11/10
83-1057	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,10)	soil / outside flood plain	3-6 in.	11/17
83-1058	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,20)	soil / outside flood plain	6-9 in.	11/10
83-1059	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,20)	soil / outside flood plain	0-3 in.	11/17
83-1060	10/31/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,20)	soil / outside flood plain	3-6 in.	11/17
83-1061	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,30)	soil / outside flood plain	6-9 in.	11/17
83-1062	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,30)	soil / outside flood plain	0-3 in.	11/17
					6.4 ppm	11/17

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-1063	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,30)	soil/ outside flood plain 6-9 in.	20. ppm	11/17
83-1064	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain 0-3 in.	17. ppm	11/10
83-1065	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain 3-6 in.	6.7 ppm	11/17
83-1066	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain 6-9 in.	11. ppm	11/17
83-1067	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,50)	soil/ outside flood plain 0-3 in.	56. ppm	11/17
83-1068	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,50)	soil/ outside flood plain 3-6 in.	25. ppm	11/17
83-1069	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,50)	soil/ outside flood plain 6-9 in.	21. ppm	11/17
83-1070	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,60)	soil/ outside flood plain 0-3 in.	49. ppm	11/17

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1071	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,60)	soil/ outside flood plain	6.0 ppm	11/17/
83-1072	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,60)	soil/ outside flood plain	6.1 ppm	11/17/
83-1073	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,70)	soil/ outside flood plain	32. ppm	11/17/
83-1074	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,70)	soil/ outside flood plain	28. ppm	11/17/
83-1075	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,70)	soil/ outside flood plain	5.7 ppm	11/17/
83-1076	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,80)	soil/ outside flood plain	2.0 ppm	11/17/
83-1077	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,80)	soil/ outside flood plain	1.0 ppm	11/17/
83-1078	11/2/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,80)	soil/ outside flood plain	1.6 ppm	11/17/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1079	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain	17. ppm	11/17
83-1080	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain 0-3 in.	5.4 ppm	11/17
83-1081	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,40)	soil/ outside flood plain 3-6 in.	4.3 ppm	11/17
83-1082	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,110)	soil/ outside flood plain 6-9 in.	130. ppm	11/17
83-1083	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,110)	soil/ outside flood plain 3-6 in.	13. ppm	11/17
83-1084	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,110)	soil/ outside flood plain 6-9 in.	16. ppm	11/17
83-1085	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,80)	soil/ outside flood plain 0-3 in.	40. ppm	11/17
83-1086	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,80)	soil/ outside flood plain 3-6 in.	14. ppm	11/17

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESUL REPOR
83-1087	11/4/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (-5,80)	soil/ outside flood plain	2.6 ppm	11/17
83-1092	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,145)	soil/ outside flood plain	11. ppm	11/17
83-1093	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,145)	soil/ outside flood plain	1.9 ppm	11/17
83-1094	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (0,145)	soil/ outside flood plain	.64 ppm	11/17
83-1095	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,165)	soil/ outside flood plain	.38 ppm	11/17
83-1096	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,165)	soil/ outside flood plain	.24 ppm	11/17
83-1097	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,165)	soil/ outside flood plain	.10 ppm	11/17
83-1098	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,185)	soil/ outside flood plain	66. ppm	11/17

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-1099	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,185)	soil/ outside flood plain 3-6 in.	8.7 ppm	11/17,
83-1100	11/7/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (5,185)	soil/ outside flood plain 6-9 in.	2.0 ppm	11/17,
83-1101	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (35,145)	soil/ outside flood plain surface	.37 ppm	11/23/
83-1102	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (23,165)	soil/ outside flood plain surface	420. ppm	11/23/
83-1103	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (25,140)	soil/ outside flood plain surface	440. ppm	11/23/
83-1104	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,140)	soil/ outside flood plain surface	6.3 ppm	11/23/
83-1105	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (35,140)	soil/ outside flood plain surface	.47 ppm	11/23/
83-1106	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (38,140)	soil/ outside flood plain surface	.25 ppm	11/23/

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					RESUL	REPOR
83-1107	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (25,145)	soil/ outside flood plain surface	12.	ppm 11/23
83-1108	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,145)	soil/ outside flood plain surface	420.	ppm 11/23
83-1109	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (14,165)	soil/ outside flood plain surface	1.2	ppm 11/23
83-1110	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (17,165)	soil/ outside flood plain surface	6.0	ppm 11/23
83-1111	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (28,165)	soil/ outside flood plain surface	.51	ppm 11/23
83-1112	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,165)	soil/ outside flood plain surface	.85	ppm 11/23
83-1113	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (10,175)	soil/ outside flood plain surface	6.4	ppm 11/23
83-1114	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (15,175)	soil/ outside flood plain surface	67.	ppm 11/23

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULT REPORT
83-1115	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (18,175)	soil/ outside flood plain surface	.3.6 ppm	11/23
83-1116	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (15,185)	soil/ outside flood plain surface	.73 ppm	11/23
83-1117	11/11/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (20,185)	soil/ outside flood plain surface	.49 ppm	11/23
83-1125	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (22,130)	soil/ outside flood plain surface	.54 ppm	11/21/
83-1126	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (25,130)	soil/ outside flood plain surface	1.5 ppm	11/21/
83-1127	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,130)	soil/ outside flood plain surface	280. ppm	11/21/
83-1128	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (32,130)	soil/ outside flood plain surface	1.3 ppm	11/21/
83-1129	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,120)	soil/ outside flood plain surface	.24 ppm	11/21/

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				<u>RESULTS</u>	<u>REPORT</u>
<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>
83-1130	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (25,120)	soil/ outside flood plain surface	.31 ppm 12/1/
83-1131	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (20,120)	soil/ outside flood plain surface	.33 ppm 12/1/
83-1132	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (20,110)	soil/ outside flood plain surface	.43 ppm 12/1/
83-1133	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (25,110)	soil/ outside flood plain surface	.22 ppm 12/1/
83-1134	11/22/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. (30,110)	soil/ outside flood plain surface	.36 ppm 12/1/
83-1135	11/29/83	City of Oak Ridge	civic Ctr. & Fitness Track (0,170)	soil/ outside flood plain surface	180. ppm 12/8/
83-1136	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,180)	soil/ outside flood plain surface	1.1 ppm 12/8/
83-1137	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,190)	soil/ outside flood plain surface	.91 ppm 12/8/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
83-1138	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,200)	soil/ surface	1.4 ppm	12/8/
83-1139	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,200)	soil/ surface	.49 ppm	12/8/
83-1140	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,190)	soil/ surface	.33 ppm	12/8/
83-1141	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,180)	soil/ surface	.69 ppm	12/8/
83-1142	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,170)	soil/ surface	.89 ppm	12/8/
83-1143	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,170)	soil/ surface	.57 ppm	12/8/
83-1144	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,180)	soil/ surface	.41 ppm	12/8/
83-1145	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,190)	soil/ surface	.31 ppm	12/8/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1146	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,200)	soil/ surface	.55 ppm	12/8/
83-1147	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,200)	soil/ surface	.33 ppm	12/8/
83-1148	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,190)	soil/ surface	.23 ppm	12/8/
83-1149	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,180)	soil/ surface	.20 ppm	12/8/
83-1150	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,170)	soil/ surface	.23 ppm	12/8/
83-1151	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,170)	soil/ surface	.29 ppm	12/8/
83-1152	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,180)	soil/ surface	.27 ppm	12/8/
83-1153	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,190)	soil/ surface	.27 ppm	12/8/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1154	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-20,200)	soil/ outside flood plain surface	.21 ppm	1 2/ 8/
83-1155	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,170)	soil/ outside flood plain surface	.53 ppm	1 2/ 8/
83-1156	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,180)	soil/ outside flood plain surface	.32 ppm	1 2/ 8/
83-1157	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,190)	soil/ outside flood plain surface	2.0 ppm	1 2/ 8/
83-1158	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,200)	soil/ outside flood plain surface	180. ppm	1 2/ 8/
83-1159	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,200)	soil/ outside flood plain surface	220. ppm	
83-1160	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,190)	soil/ outside flood plain surface	8.3 ppm	1 2/ 8/
83-1161	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,180)	soil/ outside flood plain surface	2.0 ppm	1 2/ 8/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1162	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,170)	soil/ outside flood plain surface	.24 ppm	12/8/
83-1163	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,170)	soil/ outside flood plain surface	.21 ppm	12/8/
83-1164	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,180)	soil/ outside flood plain surface	.41 ppm	12/8/
83-1165	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,190)	soil/ outside flood plain surface	.07 ppm	12/8/
83-1166	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,200)	soil/ outside flood plain surface	.36 ppm	12/8/
83-1167	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,190)	soil/ outside flood plain surface	.43 ppm	12/8/
83-1168	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,180)	soil/ outside flood plain surface	.27 ppm	12/8/
83-1169	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,170)	soil/ outside flood plain surface	.57 ppm	12/8/

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1170	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,220)	soil/ outside flood plain	1.0 ppm	12/8/1
83-1171	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,230)	soil/ surface	35. ppm	12/8/1
83-1172	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,240)	soil/ surface	68. ppm	12/8/1
83-1173	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,250)	soil/ surface	13. ppm	12/8/1
83-1174	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,260)	soil/ surface	54. ppm	12/8/1
83-1175	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,270)	soil/ surface	8.0 ppm	12/8/1
83-1176	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,280)	soil/ surface	32. ppm	12/8/1
83-1177	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,290)	soil/ surface	67. ppm	12/8/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT REPORT</u>
83-1178	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,300)	soil/ outside flood plain	110. ppm 130. ppm	12/8/1
83-1179	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,310)	soil/ outside flood plain	71. ppm	12/8/1
83-1180	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,320)	soil/ outside flood plain	340. ppm 370. ppm	12/8/1
83-1181	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,324)	soil/ outside flood plain	290. ppm 360. ppm	12/8/1
83-1182	11/29/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,210)	soil/ outside flood plain	90. ppm 110. ppm	12/8/1
83-1184	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,210)	soil/ outside floodplain	.68 ppm	12/8/1
83-1185	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,220)	soil/ outside flood plain	.60 ppm	12/8/1
83-1186	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,230)	soil/ outside flood plain	.44 ppm	12/8/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT: REPORT</u>
83-1187	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,240)	soil/ outside flood plain surface	.42 ppm	12/8/8
83-1188	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,250)	soil/ outside flood plain surface	.38 ppm	12/8/8
83-1189	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,260)	soil/ outside flood plain surface	.22 ppm	12/8/8
83-1190	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,270)	soil/ outside flood plain surface	.32 ppm	12/8/8
83-1191	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,280)	soil/ outside flood plain surface	1.2 ppm	12/8/8
83-1192	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,290)	soil/ outside flood plain surface	1.8 ppm	12/8/8
83-1193	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,300)	soil/ outside flood plain surface	.92 ppm	12/8/8
83-1194	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,310)	soil/ outside flood plain surface	.8 ppm	12/8/8

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<u>MPL#</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORT#</u>
-1195	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,320)	soil/ outside flood plain surface	.28. ppm	12/15/8
-1196	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,320)	soil/ outside flood plain surface	.72 ppm	12/8/83
-1197	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,310)	soil/ outside flood plain surface	.39. ppm	12/15/8
-1198	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,300)	soil/ outside flood plain surface	4.9 ppm	12/15/8
-1199	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,290)	soil/ outside flood plain surface	5.2 ppm	12/15/8
-1200	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,280)	soil/ outside flood plain surface	4.3 ppm	12/15/8
-1201	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,270)	soil/ outside flood plain surface	4.4 ppm	12/15/8
-1202	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,260)	soil/ outside flood plain surface	9.4 ppm	12/15/8

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
1-1203	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,250)	soil/ outside flood plain surface	10. .42	ppm ppm
1-1204	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,240)	soil/ outside flood plain surface	12/15/8	12/15/8
1-1205	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,230)	soil/ outside flood plain surface	11. 2.8	ppm ppm
1-1206	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,220)	soil/ outside flood plain surface	12/15/8	12/15/8
1-1207	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,210)	soil/ outside flood plain surface	.22	ppm
1-1211	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,320)	soil/ outside flood plain surface	.45	ppm
1-1212	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,310)	soil/ outside flood plain surface	92.	ppm
1-1213	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,300)	soil/ outside flood plain surface	52.	ppm

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<u>ER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
214	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,290)	soil/ outside flood plain surface	23. ppm	12/15/8
215	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,280)	soil/ outside flood plain surface	20. ppm	12/15/8
216	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,270)	soil/ outside flood plain surface	49. ppm	12/15/8
217	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,260)	soil/ outside flood plain surface	14. ppm	12/15/8
218	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,250)	soil/ outside flood plain surface	18. ppm	12/15/8
219	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,240)	soil/ outside flood plain surface	22. ppm	12/15/8
220	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,230)	soil/ outside flood plain surface	20. ppm	12/15/8
221	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,220)	soil/ outside flood plain surface	390. ppm	12/15/8
					360. ppm	

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
13-1222	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,210)	soil/ outside flood plain surface	.50 ppm	12/15/8
13-1223	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,210)	soil/ outside flood plain surface	120. ppm	12/15/8
13-1224	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,220)	soil/ outside flood plain surface	43. ppm	12/15/8
13-1225	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,230)	soil/ outside flood plain surface	60. ppm	12/15/8
13-1226	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,240)	soil/ outside flood plain surface	29. ppm	12/15/8
13-1228	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,260)	soil/ outside flood plain surface	3.0 ppm	12/15/8
13-1229	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,270)	soil/ outside flood plain surface	47. ppm	12/15/8
13-1230	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,280)	soil/ outside flood plain surface	17. ppm	12/15/8

12/3, 1984

<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>	
1-1231	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,290)	soil/ outside flood plain surface	4.8	p pm	12/15/8
1-1232	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,300)	soil/ outside flood plain surface	74.	p pm	12/15/8
1-1233	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,310)	soil/ outside flood plain surface	74.	p pm	12/15/8
1-1234	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,320)	soil/ outside flood plain surface	330.	p pm	12/15/8
1-1235	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,310)	soil/ outside flood plain surface	68.	p pm	12/15/8
1-1236	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,300)	soil/ outside flood plain surface	.97	p pm	12/15/8
1-1237	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,290)	soil/ outside flood plain surface	8.0	p pm	12/15/8
1-1238	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,280)	soil/ outside flood plain surface	15.	p pm	12/15/8

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	RESULTS		REPORTER
				TYPE	RESULTS	
3-1239	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,270)	soil/ surface	7.4 ppm	12/15/8
3-1240	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,260)	soil/ surface	52. ppm	12/15/8
3-1241	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,250)	soil/ surface	61. ppm	12/15/8
3-1242	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,240)	soil/ surface	28. ppm	12/15/8
3-1243	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,230)	soil/ surface	16. ppm	12/15/8
3-1244	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,220)	soil/ surface	76. ppm	12/15/8
3-1245	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,210)	soil/ surface	93. ppm	12/15/8
3-1246	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,210)	soil/ surface	5.2 ppm	12/15/8

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	<u>RESULTS</u>		RESULT: REPORT
					PPM	PPM	
13-1247	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,220)	soil/ outside flood plain surface	16.	ppm	12/15/1
13-1248	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,230)	soil/ outside flood plain surface	5.0	ppm	12/15/1
13-1249	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,240)	soil/ outside flood plain surface	1.3	ppm	12/15/1
13-1250	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,250)	soil/ outside flood plain surface	3.7	ppm	12/15/1
13-1251	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,260)	soil/ outside flood plain surface	3.4	ppm	12/15/1
13-1252	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,270)	soil/ outside flood plain surface	.24	ppm	12/15/1
13-1253	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,280)	soil/ outside flood plain surface	.23	ppm	12/15/1
13-1254	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-10,290)	soil/ outside flood plain surface	5.1	ppm	12/15/1

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTS</u>
3-1255	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-13,290)	soil/ outside flood plain surface	.25 ppm	12/15/8
3-1256	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-16,280)	soil/ outside flood plain surface	.23 ppm	12/15/8
3-1257	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,270)	soil/ outside flood plain surface	.16 ppm	12/15/8
3-1258	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,260)	soil/ outside flood plain surface	.19 ppm	12/15/8
3-1259	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,250)	soil/ outside flood plain surface	.43 ppm	12/15/8
3-1260	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,240)	soil/ outside flood plain surface	5.2 ppm	12/15/8
3-1261	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,230)	soil/ outside flood plain surface	1.9 ppm	12/15/8
3-1262	12/1/83	City of Oak Ridge	Civic Ctr. & Fitness Track (-15,220)	soil/ outside flood plain surface	.50 ppm	12/15/8

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
3-1263	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-15,210)	soil/ outside flood plain surface	1.1 ppm	12/15/8
3-1264	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,220)	soil/ outside flood plain surface	.22 ppm	12/15/8
3-1265	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,230)	soil/ outside flood plain surface	1.2 ppm	12/15/8
3-1266	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,240)	soil/ outside flood plain surface	.24 ppm	12/15/8
3-1267	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,250)	soil/ outside flood plain surface	.45 ppm	12/15/8
3-1268	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,260)	soil/ outside flood plain surface	.22 ppm	12/15/8
3-1269	12/1/83	city of Oak Ridge	Civic Ctr. & Fitness Track (-20,270)	soil/ outside flood plain surface	.30 ppm	12/15/8
3-1271	12/7/83	city of Oak Ridge	Civic Ctr. & Playground (-18,456)	soil/ outside flood plain surface	.36 ppm	12/15/8

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
3-1272	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,466)	soil/ outside flood plain	.28 ppm	12/15/8
3-1273	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,476)	surface soil/ outside flood plain	.47 ppm	12/15/8
3-1274	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,486)	surface soil/ outside flood plain	.56 ppm	12/15/8
3-1275	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,496)	surface soil/ outside flood plain	170. ppm	12/15/8
3-1276	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,506)	surface soil/ outside flood plain	230. ppm	12/15/8
3-1277	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,516)	surface soil/ outside flood plain	17. ppm	12/15/8
3-1278	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,526)	surface soil/ outside flood plain	1.5 ppm	12/15/8
3-1279	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,536)	surface soil/ outside flood plain	77. ppm	12/15/8

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS		RESULT: REPORT
					ppm	ppm	
83-1280	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,546)	soil/ outside flood plain	110.	ppm	12/15/1
83-1281	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,556)	surface soil/ outside flood plain	100.	ppm	
83-1282	12/7/83	City of Oak Ridge	Civic Ctr. & Playground (-18,566)	surface soil/ outside flood plain	33.	ppm	12/15/1
83-1284	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,446)	surface soil/ outside flood plain	290.	ppm	12/15/1
83-1285	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,456)	surface soil/ outside flood plain	310.	ppm	
83-1286	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,466)	surface soil/ outside flood plain	.86	ppm	12/15/1
83-1287	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,476)	surface soil/ outside flood plain	.31	ppm	12/15/1
83-1288	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,486)	surface soil/ outside flood plain	.30	ppm	12/15/1
					1.5	ppm	12/15/1
					2.2	ppm	12/15/1

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
3-1289	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,496)	soil/ surface	9.2 ppm	12/15/8
3-1290	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,506)	soil/ surface	75. ppm	12/15/8
3-1291	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,516)	soil/ surface	53. ppm	12/15/8
3-1292	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,526)	soil/ surface	36. ppm	12/15/8
3-1293	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,536)	soil/ surface	210. ppm	12/15/8
3-1294	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,546)	soil/ surface	200. ppm	12/15/8
3-1295	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,556)	soil/ surface	390. ppm	12/15/8
3-1296	12/9/83	City of Oak Ridge	Civic Ctr. & Playground (-13,566)	soil/ surface	360. ppm	12/15/8

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORT</u>
1-1297	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,456)	soil/ outside flood plain surface	.23 ppm	12/15/8
1-1298	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,466)	soil/ outside flood plain surface	.15 ppm	12/15/8
1-1299	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,476)	soil/ outside flood plain surface	.43 ppm	12/15/8
1-1300	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,486)	soil/ outside flood plain surface	1.6 ppm	12/15/8
1-1301	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,496)	soil/ outside flood plain surface	410. ppm	12/15/8
1-1302	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,506)	soil/ outside flood plain surface	85. ppm	12/15/8
1-1303	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,516)	soil/ outside flood plain surface	7.6 ppm	12/22/8
1-1304	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,526)	soil/ outside flood plain surface	64. ppm	12/22/8

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT#</u>
13-1305	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,536)	soil/ outside flood plain surface	9.0 ppm	12/22/1
13-1306	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,546)	soil/ outside flood plain surface	74. ppm	12/22/1
13-1307	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,556)	soil/ outside flood plain surface	120. ppm	12/22/1
13-1308	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,566)	soil/ outside flood plain surface	280. ppm	12/22/1
13-1309	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,556)	soil/ outside flood plain surface	90. ppm	12/22/1
13-1310	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,546)	soil/ outside flood plain surface	210. ppm	12/22/1
13-1311	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,536)	soil/ outside flood plain surface	43. ppm	12/22/1
13-1312	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,526)	soil/ outside flood plain surface	100. ppm	12/22/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT:</u> <u>REPORT</u>
83-1313	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,516)	soil/ outside flood plain surface	17. ppm	12/22/1
83-1314	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,506)	soil/ outside flood plain surface	3.1 ppm	12/22/1
83-1315	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,496)	soil/ outside flood plain surface	9.1 ppm	12/22/1
83-1316	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-10,486)	soil/ outside flood plain surface	2.6 ppm	12/22/1
83-1317	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,476)	soil/ outside flood plain surface	.43 ppm	12/22/1
83-1318	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,466)	soil/ outside flood plain surface	.52 ppm	12/22/1
83-1319	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-16,446)	soil/ outside flood plain surface	.31 ppm	12/22/1
83-1320	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-7,476)	soil/ outside flood plain surface	.38 ppm	12/22/1

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS		RESULT: REPORT
					PPM	PPM	
13-1321	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,486)	soil/ outside flood plain surface	.10	ppm	12/22/1
13-1322	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-7,496)	soil/ outside flood plain surface	.66	ppm	12/22/1
13-1323	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-7,506)	soil/ outside flood plain surface	1.2	ppm	12/22/1
13-1324	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-5,516)	soil/ outside flood plain surface	.65	ppm	12/22/1
13-1325	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-5,526)	soil/ outside flood plain surface	1.9	ppm	12/22/1
13-1326	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-5,536)	soil/ outside flood plain surface	53.	ppm	12/22/1
13-1327	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-5,546)	soil/ outside flood plain surface	1.5	ppm	12/22/1
13-1328	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-8,566)	soil/ outside flood plain surface	260.	ppm	12/22/1

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT: REPORT</u>
13-1329	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-10,476)	soil/ outside flood plain surface	2.2 ppm .55 ppm	12/22/1 12/22/1
13-1330	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-10,466)	soil/ outside flood plain surface	.35 ppm	12/22/1
13-1331	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-10,456)	soil/ outside flood plain surface	.26 ppm	12/22/1
13-1332	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,456)	soil/ outside flood plain surface	.27 ppm	12/22/1
13-1333	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-18,466)	soil/ outside flood plain surface	.27 ppm	12/22/1
13-1334	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,466)	soil/ outside flood plain surface	.19 ppm	12/22/1
13-1335	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-26,466)	soil/ outside flood plain surface	.23 ppm	12/22/1
13-1336	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,476)	soil/ outside flood plain surface		

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS</u>	<u>RESULTS</u>
13-1337	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,476)	soil / outside flood plain surface	.34 ppm	12/22/1	
13-1338	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,486)	soil / outside flood plain surface	.40 ppm	12/22/1	
13-1339	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,486)	soil / outside flood plain surface	.29 ppm	12/22/1	
13-1340	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-38,486)	soil / outside flood plain surface	.33 ppm	12/22/1	
13-1341	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,496)	soil / outside flood plain surface	.51 ppm	12/22/1	
13-1342	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-25,496)	soil / outside flood plain surface	.50 ppm	12/22/1	
13-1343	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,506)	soil / outside flood plain surface	.71 ppm	12/22/1	
13-1344	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,506)	soil / outside flood plain surface	.24 ppm	12/22/1	

1y 3, 1984

<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
1-1345	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-33,506)	soil/ outside flood plain surface	.21 ppm	12/22/8
1-1346	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-39,506)	soil/ outside flood plain surface	.30 ppm	12/22/8
1-1347	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,516)	soil/ outside flood plain surface	.35 ppm	12/22/8
1-1348	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,516)	soil/ outside flood plain surface	.31 ppm	12/22/8
1-1349	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-33,516)	soil/ outside flood plain surface	.26 ppm	12/22/8
1-1350	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-38,516)	soil/ outside flood plain surface	.32 ppm	12/22/8
1-1351	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-43,516)	soil/ outside flood plain surface	.26 ppm	12/22/8
1-1352	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,526)	soil/ outside flood plain surface	.24 ppm	12/22/8

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
13-1353	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,526)	soil/ outside flood plain surface	.22 ppm	12/22/f
13-1354	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-33,526)	soil/ outside flood plain surface	.28 ppm	12/22/f
13-1355	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,546)	soil/ outside flood plain surface	.36 ppm	12/22/f
13-1356	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-23,556)	soil/ outside flood plain surface	1.1 ppm	11/9/84
13-1357	12/12/83	City of Oak Ridge	Civic Ctr. & Playground (-28,556)	soil/ outside flood plain surface	.20 ppm	12/22/f
13-1358	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,344)	soil/ outside flood plain surface	56. ppm	12/22/f
13-1359	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,354)	soil/ outside flood plain surface	37. ppm	12/22/f
13-1360	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,364)	soil/ outside flood plain surface	260. ppm	12/22/f

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
3-1361	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,374)	soil/ outside flood plain surface	190.	p pm
3-1362	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,384)	soil/ outside flood plain surface	77.	p pm
3-1363	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,394)	soil/ outside flood plain surface	50.	p pm
3-1364	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,404)	soil/ outside flood plain surface	83.	p pm
3-1365	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,414)	soil/ outside flood plain surface	160.	p pm
3-1366	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,424)	soil/ outside flood plain surface	250.	p pm
3-1367	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,434)	soil/ outside flood plain surface	27.	p pm
3-1368	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,444)	soil/ outside flood plain surface	1.4	p pm

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
3-1369	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (0,446)	soil/ outside flood plain surface	1.8 ppm	12/22/8
3-1370	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,344)	soil/ outside flood plain surface	100. ppm	12/22/8
3-1371	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,354)	soil/ outside flood plain surface	230. ppm	12/22/8
3-1372	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,364)	soil/ outside flood plain surface	74. ppm	1/5/84
3-1373	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,374)	soil/ outside flood plain surface	76. ppm	1/5/84
3-1374	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,384)	soil/ outside flood plain surface	37. ppm	1/5/84
3-1375	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,394)	soil/ outside flood plain surface	83. ppm	1/5/84
3-1376	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,404)	soil/ outside flood plain surface	35. ppm	1/5/84

AMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULTS REPORT	
3-1377	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,414)	soil/ outside flood plain surface	50.	ppm	1/5/84
3-1378	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,424)	soil/ outside flood plain surface	1.0	ppm	1/5/84
3-1379	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,434)	soil/ outside flood plain surface	2.0	ppm	1/5/84
3-1380	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,444)	soil/ outside flood plain surface	3.1	ppm	1/5/84
3-1381	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (5,446)	soil/ outside flood plain surface	3.3	ppm	1/5/84
3-1382	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,354)	soil/ outside flood plain surface	2.4	ppm	1/5/84
3-1383	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,364)	soil/ outside flood plain surface	68.	ppm	1/5/84
3-1384	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,374)	soil/ outside flood plain surface	.52	ppm	1/5/84

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>	
)-1385	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,384)	soil/ outside flood plain surface	23.	ppm	1/5/84
)-1386	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,394)	soil/ outside flood plain surface	37.	ppm	1/5/84
)-1387	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,404)	soil/ outside flood plain surface	19.	ppm	1/5/84
)-1388	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,414)	soil/ outside flood plain surface	8.9	ppm	1/5/84
)-1389	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,424)	soil/ outside flood plain surface	6.0	ppm	1/5/84
)-1390	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,434)	soil/ outside flood plain surface	4.6	ppm	1/5/84
)-1391	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,444)	soil/ outside flood plain surface	1.5	ppm	1/5/84
)-1392	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,446)	soil/ outside flood plain surface	3.6	ppm	1/5/84

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					REPORTED	RESULTS
3-1393	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (10,344)	soil/ outside flood plain surface	2.5	ppm
3-1394	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,344)	soil/ outside flood plain surface	15.	ppm
3-1395	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,354)	soil/ outside flood plain surface	13.	ppm
3-1396	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,364)	soil/ outside flood plain surface	50.	ppm
3-1397	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,374)	soil/ outside flood plain surface	6.4	ppm
3-1398	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,384)	soil/ outside flood plain surface	6.6	ppm
3-1399	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,394)	soil/ outside flood plain surface	4.8	ppm
3-1400	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,404)	soil/ outside flood plain surface	2.5	ppm

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORT</u>
3-1401	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,414)	soil/ outside flood plain surface	6.6 ppm	1/5/84
3-1402	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,424)	soil/ outside flood plain surface	1.5 ppm	1/5/84
3-1403	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,434)	soil/ outside flood plain surface	4.3 ppm	1/5/84
3-1404	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,444)	soil/ outside flood plain surface	.76 ppm	1/5/84
3-1405	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (15,446)	soil/ outside flood plain surface	3.4 ppm	1/5/84
3-1406	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,344)	soil/ outside flood plain surface	8.0 ppm	1/5/84
3-1407	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,354)	soil/ outside flood plain surface	20. ppm	1/12/84
3-1408	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,364)	soil/ outside flood plain surface	66. ppm	1/12/84

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
1-1409	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,374)	soil/ outside flood plain surface	1.9 ppm	1/12/84
1-1410	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,384)	soil/ outside flood plain surface	9.9 ppm	1/12/84
1-1411	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,394)	soil/ outside flood plain surface	3.6 ppm	1/12/84
1-1412	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,404)	soil/ outside flood plain surface	1.7 ppm	1/12/84
1-1413	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,414)	soil/ outside flood plain surface	2.2 ppm	1/12/84
1-1414	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,444)	soil outside flood plain surface	120. ppm	1/12/84
1-1415	12/16/83	City of Oak Ridge	Civic Ctr. & Fitness Track (20,446)	soil/ outside flood plain surface	150. ppm	1/12/84
1-1416	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (344,25)	soil/ outside flood plain surface	29. ppm	1/12/84

AMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	RESULTS REPORTED
3-1417	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (344,30)	soil/ outside flood plain surface	.46 ppm	1/12/84
3-1418	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (354,25)	soil/ outside flood plain surface	.39. ppm	1/12/84
3-1419	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (354,30)	soil/ outside flood plain surface	.66 ppm	1/12/84
3-1420	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (364,25)	soil/ outside flood plain surface	.76 ppm	1/12/84
3-1421	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (374,25)	soil/ outside flood plain surface	1.8 ppm	1/12/84
3-1422	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (384,25)	soil/ outside flood plain surface	.17 ppm	1/12/84
3-1423	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (444,25)	soil/ outside flood plain surface	250. ppm	1/12/84
3-1424	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (446,25)	soil/ outside flood plain surface	240. ppm	1/12/84

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AMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					RESULTS	REPORT
3-1425	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (444,30)	soil/ outside flood plain surface	170.	ppm
3-1426	12/19/83	City of Oak Ridge	Civic Ctr. & Fitness Track (446,30)	soil/ outside flood plain surface	190.	ppm
3-1427	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	.85	ppm
3-1428	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	1.2	ppm
3-1429	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	.33	ppm
3-1430	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	.44	ppm
3-1431	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	.47	ppm
3-1432	12/19/83	City of Oak Ridge	Civic Ctr. & Municipal Bldg. stream bed	sediment/ stream bed	.12	ppm

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					RESULTS	REPORT
4-0001	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.25 ppm	1/19/84
4-0002	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.36 ppm	1/19/84
4-0003	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.11 ppm	1/19/84
4-0004	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.05 ppm	1/19/84
4-0005	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.06 ppm	1/19/84
4-0006	1/6/84	City of Oak Ridge	Civic Ctr. & Playground	soil/ outside flood plain surface	.15 ppm	1/19/84
4-0007	1/6/84	City of Oak Ridge	Civic Ctr. & Fitness Track	soil/ outside flood plain surface	.15 ppm	1/19/84
4-0008	1/13/84	City of Oak Ridge	(0,0)	soil/ outside flood plain 0-3 in.	120. ppm	1/26/84

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT: REPORT</u>
14-0009	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,0)	soil/ outside flood plain 3-6 in.	32. ppm	1/26/84
14-0010	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,0)	soil/ outside flood plain 6-9 in.	7.2 ppm	1/26/84
14-0011	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,170)	soil/ outside flood plain 0-3 in.	106. ppm	1/26/84
14-0012	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,170)	soil/ outside flood plain 3-6 in.	33. ppm	1/26/84
14-0013	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,170)	soil/ outside flood plain 6-9 in.	17. ppm	1/26/84
14-0014	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,210)	soil/ outside flood plain 0-3 in.	23. ppm	1/26/84
14-0015	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,210)	soil/ outside flood plain 3-6 in.	8.4 ppm	1/26/84
14-0016	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,210)	soil/ outside flood plain 6-9 in.	4.8 ppm	1/26/84

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AMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					<u>RESULTS</u>	<u>REPORT</u>
4-0017	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,300)	soil/ outside flood plain 0-3 in.	22.	ppm 1/26/84
4-0018	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,300)	soil/ outside flood plain 3-6 in.	4.8	ppm 1/26/84
4-0019	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,300)	soil/ outside flood plain 6-9 in.	2.7	ppm 1/26/84
4-0020	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,320)	soil/ outside flood plain 0-3 in.	160.	ppm 1/26/84
4-0021	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,320)	soil/ outside flood plain 3-6 in.	71.	ppm 1/26/84
4-0022	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,320)	soil/ outside flood plain 6-9 in.	60.	ppm 1/26/84
4-0023	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,324)	soil/ outside flood plain 0-3 in.	180.	ppm 1/26/84
4-0024	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,324)	soil/ outside flood plain 3-6 in.	37.	ppm 1/26/84

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					REPORTED	1/26/84
4-0025	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,324)	soil/ outside flood plain	21.	ppm
4-0026	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,364)	soil/ outside flood plain	6-9 in.	ppm
4-0027	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,364)	soil/ outside flood plain	0-3 in.	ppm
4-0028	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,364)	soil/ outside flood plain	3-6 in.	ppm
4-0029	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,374)	soil/ outside flood plain	6-9 in.	ppm
4-0030	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,374)	soil/ outside flood plain	0-3 in.	ppm
4-0031	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,374)	soil/ outside flood plain	3-6 in.	ppm
4-0032	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,384)	soil/ outside flood plain	6-9 in.	ppm
					.41	ppm
					21.	ppm

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
14-0033	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,384)	soil/ outside flood plain 3-6 in.	2.8 ppm	1/26/84
14-0034	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,384)	soil/ outside flood plain 6-9 in.	.66 ppm	1/26/84
14-0035	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,404)	soil/ outside flood plain 0-3 in.	29. ppm	1/26/84
14-0036	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,404)	soil/ outside flood plain 3-6 in.	3.3 ppm	1/26/84
14-0037	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,404)	soil/ outside flood plain 6-9 in.	3.1 ppm	1/26/84
14-0038	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,414)	soil/ outside flood plain 0-3 in.	220. ppm	1/26/84
14-0039	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,414)	soil/ outside flood plain 3-6 in.	86. ppm	1/26/84
14-0040	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,414)	soil/ outside flood plain 6-9 in.	30. ppm	1/26/84

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULT: REPORT</u>
4-0041	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,424)	soil/ outside flood plain 0-3 in.	160. ppm	1/26/84
4-0042	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,424)	soil/ outside flood plain 3-6 in.	28. ppm	1/26/84
4-0043	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (0,424)	soil/ outside flood plain 6-9 in.	24. ppm	1/26/84
4-0044	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,310)	soil/ outside flood plain 0-3 in.	23. ppm	1/26/84
4-0045	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,310)	soil/ outside flood plain 3-6 in.	7.6 ppm	1/26/84
4-0046	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,310)	soil/ outside flood plain 6-9 in.	1.3 ppm	1/26/84
4-0047	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,220)	soil/ outside flood plain 0-3 in.	190. ppm	1/26/84
4-0048	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,220)	soil/ outside flood plain 3-6 in.	45. ppm	1/26/84

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
1-0049	1/13/84	City of Oak Ridge	Civic Ctr. & Fitness Track (10,220)	soil/ outside flood plain 6-9 in.	.35. ppm	1/26/84
1-0050	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,210)	soil/ outside flood plain 0-3 in.	.20 ppm	1/26/84
1-0051	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,210)	soil/ outside flood plain 3-6 in.	1.6 ppm	1/26/84
1-0052	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,210)	soil/ outside flood plain 6-9 in.	.98 ppm	1/26/84
1-0053	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,300)	soil/ outside flood plain 0-3 in.	20. ppm	1/26/84
1-0054	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,300)	soil/ outside flood plain 3-6 in.	3.1 ppm	1/26/84
1-0055	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,300)	soil/ outside flood plain 6-9 in.	3.3 ppm	1/26/84
1-0056	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,310)	soil/ outside flood plain 0-3 in.	6.8 ppm	1/26/84

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<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORTED</u>
4-0057	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,310)	soil/ outside flood plain 3-6 in.	1.8 ppm	1/26/84
4-0058	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,310)	soil/ outside flood plain 6-9 in.	.67 ppm	1/26/84
4-0059	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,320)	soil/ outside flood plain 0-3 in.	250. ppm	1/26/84
4-0060	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,320)	soil/ outside flood plain 3-6 in.	130. ppm	1/26/84
4-0061	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,320)	soil/ outside flood plain 6-9 in.	110. ppm	1/26/84
4-0062	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,344)	soil/ outside flood plain 0-3 in.	11. ppm	1/26/84
4-0063	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,344)	soil/ outside flood plain 3-6 in.	3.2 ppm	1/26/84
4-0064	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,344)	soil/ outside flood plain 6-9 in.	2.0 ppm	1/26/84

May 3, 1984

SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					REPORTED	RESULTS
14-0065	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,354)	soil/ outside flood plain 0-3 in.	86.	ppm 1/26/84
14-0066	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,354)	soil/ outside flood plain 3-6 in.	4.5	ppm 1/26/84
14-0067	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,354)	soil/ outside flood plain 6-9 in.	4.1	ppm 2/2/84
14-0068	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,210)	soil/ outside flood plain 0-3 in.	59.	ppm 2/2/84
14-0069	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,210)	soil/ outside flood plain 3-6 in.	16.	ppm 2/2/84
14-0070	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (-5,210)	soil/ outside flood plain 6-9 in.	3.8	ppm 2/2/84
14-0071	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,200)	soil/ outside flood plain 0-3 in.	190.	ppm 2/2/84
14-0072	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,200)	soil/ outside flood plain 3-6 in.	160.	ppm 2/2/84

May 3, 1984

<u>AMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORT</u>
4-0073	1/18/84	City of Oak Ridge	Civic Ctr. & Fitness Track (5,200)	soil/ outside flood plain 6-9 in.	29. ppm	2/2/84
4-0074	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,496)	soil/ outside flood plain 0-3 in.	200. ppm	2/2/84
4-0075	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,496)	soil/ outside flood plain 3-6 in.	18. ppm	2/2/84
4-0076	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,496)	soil/ outside flood plain 6-9 in.	17. ppm	2/2/84
4-0077	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,506)	soil/ outside flood plain 0-3 in.	79. ppm	2/2/84
4-0078	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,506)	soil/ outside flood plain 3-6 in.	21. ppm	2/2/84
4-0079	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,506)	soil/ outside flood plain 6-9 in.	12. ppm	2/2/84
4-0080	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,536)	soil/ outside flood plain 0-3 in.	36. ppm	2/2/84

May 3, 1984

<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS</u>	<u>REPORT</u>
14-0081	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,536)	soil/ outside flood plain 3-6 in.	11.	ppm	2/2/84
14-0082	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,536)	soil/ outside flood plain 6-9 in.	3.5	ppm	2/2/84
14-0083	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,546)	soil/ outside flood plain 0-3 in.	47.	ppm	2/2/84
14-0084	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,546)	soil/ outside flood plain 3-6 in.	7.3	ppm	2/2/84
14-0085	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,546)	soil/ outside flood plain 6-9 in.	3.4	ppm	2/2/84
14-0086	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,566)	soil/ outside flood plain 0-3 in.	400.	ppm	2/2/84
14-0087	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,566)	soil/ outside flood plain 3-6 in.	150.	ppm	2/2/84
14-0088	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-18,566)	soil/ outside flood plain 6-9 in.	170.	ppm	2/2/84

May 3, 1984

<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
4-0089	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,506)	soil/ outside flood plain 0-3 in.	8.9 ppm	2/2/84
4-0090	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,506)	soil/ outside flood plain 3-6 in.	6.4 ppm	2/2/84
4-0091	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,506)	soil/ outside flood plain 6-9 in.	1.4 ppm	2/2/84
4-0092	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,536)	soil/ outside flood plain 0-3 in.	72. ppm	2/2/84
4-0093	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,536)	soil/ outside flood plain 3-6 in.	21. ppm	2/2/84
4-0094	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,536)	soil/ outside flood plain 6-9 in.	29. ppm	2/2/84
4-0095	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,546)	soil/ outside flood plain 0-3 in.	230. ppm	2/2/84
4-0096	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,546)	soil/ outside flood plain 3-6 in.	120. ppm	2/2/84

WY 3, 1984

<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT</u>
4-0097	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,546)	soil/ outside flood plain 6-9 in.	67. ppm	2/2/84
4-0098	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,556)	soil/ outside flood plain 0-3 in.	35. ppm	2/2/84
4-0099	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,556)	soil/ outside flood plain 3-6 in.	17. ppm	2/2/84
4-0100	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,556)	soil/ outside flood plain 6-9 in.	4.8 ppm	2/2/84
4-0101	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,566)	soil/ outside flood plain 0-3 in.	370. ppm	2/2/84
4-0102	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,566)	soil/ outside flood plain 3-6 in.	94. ppm	2/2/84
4-0103	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-13,566)	soil/ outside flood plain 6-9 in.	77. ppm	2/2/84
4-0104	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,496)	soil/ outside flood plain 0-3 in.	270. ppm	2/2/84

May 3, 1984

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>RESULTS REPORT</u>
4-0105	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,496)	soil/ outside flood plain 3-6 in.	60. ppm	2/2/84
4-0106	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,496)	soil/ outside flood plain 6-9 in.	63. ppm	2/2/84
4-0107	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,506)	soil/ outside flood plain 0-3 in.	57. ppm	2/2/84
4-0108	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,506)	soil/ outside flood plain 3-6 in.	25. ppm	2/2/84
4-0109	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,506)	soil/ outside flood plain 6-9 in.	11. ppm	2/2/84
4-0110	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,556)	soil/ outside flood plain 0-3 in.	17. ppm	2/2/84
4-0111	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,556)	soil/ outside flood plain 3-6 in.	4.1. ppm	2/2/84
4-0112	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,556)	soil/ outside flood plain 6-9 in.	9.0 ppm	2/2/84

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORTER</u>
1-0113	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,566)	soil/ outside flood plain 0-3 in.	310. ppm	2/2/84
1-0114	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,566)	soil/ outside flood plain 3-6 in.	210. ppm	2/2/84
1-0115	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-16,566)	soil/ outside flood plain 6-9 in.	28. ppm	2/2/84
1-0116	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,526)	soil/ outside flood plain 0-3 in.	13. ppm	2/2/84
1-0117	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,526)	soil/ outside flood plain 3-6 in.	2.2 ppm	2/2/84
1-0118	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,526)	soil/ outside flood plain 6-9 in.	.73 ppm	2/2/84
1-0119	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,546)	soil/ outside flood plain 0-3 in.	56. ppm	2/2/84
1-0120	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,546)	soil/ outside flood plain 3-6 in.	6.6 ppm	2/2/84

ay 3, 1984

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SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					REPORTER	RESULTS
4-0121	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,546)	soil/ outside flood plain 6-9 in.	.57	ppm
4-0122	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,556)	soil/ outside flood plain 0-3 in.	80.	ppm
4-0123	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,556)	soil/ outside flood plain 3-6 in.	11.	ppm
4-0124	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,556)	soil/ outside flood plain 6-9 in.	6.0	ppm
4-0125	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,566)	soil/ outside flood plain 0-3 in.	190.	ppm
4-0126	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,566)	soil/ outside flood plain 3-6 in.	46.	ppm
4-0127	1/19/84	City of Oak Ridge	Civic Ctr. & Playground (-8,566)	soil/ outside flood plain 6-9 in.	45.	ppm
4-0165	1/31/84	City of Oak Ridge	Civic Ctr. & Fitness Track surface	soil/ outside flood plain 190.	210.	ppm

May 3, 1984

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<u>SAMPLE NUMBER</u>	<u>DATE COLLECTED</u>	<u>OWNER</u>	<u>LOCATION</u>	<u>TYPE</u>	<u>RESULTS</u>	<u>REPORT BY</u>
14-0166	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (35,446)	soil/ outside flood plain surface	250. 260. 150.	ppm ppm ppm
14-0167	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (30,446)	soil/ surface	160.	ppm ppm
14-0168	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (40,446)	soil/ surface	230. 240.	ppm ppm
14-0169	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (35,448)	soil/ surface	130. 130.	ppm ppm
14-0170	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (30,448)	soil/ surface	230. 240.	ppm ppm
14-0171	1/26/84	City of Oak Ridge	Civic Ctr. & Fitness Track (25,448)	soil/ surface	180. 190.	ppm ppm
14-0348	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.41	ppm
14-0349	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.55	ppm

3/11/84

3/11/84

1Y 3, 1984

SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	TYPE	RESULTS	
					REPORTED	RESULTS
1-0350	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.33	ppm
1-0351	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.21	ppm
1-0352	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.31	ppm
1-0353	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.26	ppm
1-0354	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.26	ppm
1-0355	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.06	ppm
1-0356	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.29	ppm
1-0357	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.13	ppm

1y 3, 1984

SAMPLE NUMBER	DATE COLLECTED	OWNER	LOCATION	RESULTS	
				TYPE	RESULTS
1-0358	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.26 ppm 3/8/84
1-0359	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.22 ppm 3/8/84
1-0360	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.30 ppm 3/8/84
1-0361	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.18 ppm 3/8/84
1-0362	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.16 ppm 3/8/84
1-0363	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.16 ppm 3/8/84
1-0364	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.15 ppm 3/8/84
1-0365	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ outside flood plain surface	.16 ppm 3/8/84

ay 3, 1984

AMPLE NUMBER	DATE COLLECTED	OWNER	<u>LOCATION</u>	<u>RESULTS</u>	
				<u>TYPE</u>	<u>RESULTS</u>
4-0366	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ surface	.19 ppm
4-0367	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ surface	.15 ppm
4-0368	2/22/84	city of Oak Ridge	Civic Ctr. & Library	soil/ surface	.20 ppm
4-0369	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ surface	.15 ppm
4-0370	2/22/84	City of Oak Ridge	Civic Ctr. & Library	soil/ surface	.50 ppm

RESULTS
REPORT

3/8/84

Table 2

Multi-element Analysis of Civic Center Soils
with Elevated Mercury Analysis

May 2, 1984

CIVIC CENTER SOILS

Log. No.	Gross α pCi/g	Gross β pCi/g	Hg ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pb ppm
83-0733	12.2	36	285 ± 17	45 ± 3	24 ± 2	400 ± 60	85 ± 10	4.9 ± 0.4	<3	11	<3	85
83-0734	10.1	35	400 ± 25	43 ± 3	25 ± 2	420 ± 70	70 ± 10	9.6 ± 0.7	<3	13	<3	75
83-0735	7.7	33	270 ± 16	30 ± 2	18 ± 1	380 ± 70	70 ± 10	8.3 ± 0.6	<3	11	<3	85
83-0736	6.3	23	125 ± 8	17 ± 1	16 ± 1	300 ± 70	54 ± 8	8.3 ± 0.6	<3	7.8	<3	60
83-0737	9.7	3.2	330 ± 20	38 ± 2	20 ± 1	550 ± 80	62 ± 5	9.0 ± 0.6	<3	11	<3	75
83-0738	6.5	24	190 ± 12	25 ± 2	18 ± 1	320 ± 70	50 ± 9	7.8 ± 0.5	<3	8.1	<3	50
83-0739	5.4	23	170 ± 10	18 ± 1	16 ± 1	225 ± 50	55 ± 8	7.2 ± 0.5	<3	7.4	<3	50
83-0740	6.4	30	210 ± 12	25 ± 2	16 ± 1	320 ± 60	63 ± 8	8.0 ± 0.6	<3	7.8	<3	50
83-0764	4.8	26	120 ± 7	15 ± 1	17 ± 1	340 ± 60	67 ± 9	8.2 ± 0.5	<3	7.5	<3	45
83-0766	5.6	23	235 ± 15	24 ± 2	19 ± 1	340 ± 60	78 ± 9	7.8 ± 0.6	<3	9.3	<3	70
83-0767	5.7	20	97 ± 6	15 ± 1	14 ± 1	330 ± 40	62 ± 8	6.8 ± 0.5	<3	7.2	<3	45
83-0768	6.1	20	125 ± 7	17 ± 1	15 ± 1	320 ± 60	50 ± 6	7.0 ± 0.5	<3	7.1	<3	50
83-0776	7.4	36	350 ± 20	30 ± 2	22 ± 1	440 ± 50	80 ± 5	9.9 ± 0.6	<3	<6	9.3 ± 1.7	80
83-0796	6.6	34	270 ± 16	23 ± 1	19 ± 1	400 ± 50	80 ± 6	7.8 ± 0.5	<3	<6	<3	54
83-0815	8.5	43	440 ± 30	37 ± 2	22 ± 1	440 ± 50	87 ± 6	8.8 ± 0.6	<3	11 ± 1	87	
83-0822	12	40	510 ± 30	42 ± 3	25 ± 1	570 ± 50	84 ± 6	9.2 ± 0.6	<3	<6	12 ± 2	90

CIVIC CENTER SOILS

Log. No.	Gross α pCi/g	Gross β pCi/g	Lig ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pb ppm
13-0823	8.5	44	420 ± 25	38 ± 2	23 ± 1	530 ± 60	89 ± 6	9.2 ± 0.6	<3	<7	10 ± 2	90
13-0837	12	34	380 ± 22	38 ± 2	22 ± 1	490 ± 50	86 ± 6	8.2 ± 0.5	<3	<6	8.5 ± 1.4	75
13-0838	12	36	410 ± 25	43 ± 3	23 ± 1	500 ± 50	92 ± 6	9.5 ± 0.6	<3	<6	12 ± 2	87
13-0839	12	43	390 ± 23	39 ± 2	21 ± 1	500 ± 50	84 ± 5	7.9 ± 0.5	<3	<6	15 ± 2	72
13-0840	13	46	450 ± 27	44 ± 3	24 ± 1	590 ± 60	92 ± 6	9.6 ± 0.6	<3	<6	11 ± 2	80
13-0841	11	45	480 ± 28	46 ± 3	23 ± 1	500 ± 50	92 ± 6	9.3 ± 0.6	<2	<7	8.8 ± 1.5	87
13-0842	8.7	41	390 ± 24	36 ± 2	21 ± 1	520 ± 50	83 ± 6	8.9 ± 0.6	<3	<7	7.4 ± 1.8	80
13-0845	9.2	35	330 ± 20	27 ± 2	21 ± 1	380 ± 60	80 ± 6	8.9 ± 0.6	<3	<9	10 ± 2	80
13-0978	11	43	420 ± 25	42 ± 3	23 ± 1	440 ± 60	79 ± 6	9.0 ± 0.6	<3	<7	6.7 ± 1.8	92
13-0981	12	37	300 ± 18	38 ± 2	23 ± 1	560 ± 60	94 ± 6	9.6 ± 0.6	<2	<7	10 ± 2	75
13-0983	6.4	27	150 ± 10	15 ± 1	15 ± 1	330 ± 50	62 ± 4	6.7 ± 0.5	<2	<6	<2	50
13-0984	6.1	27	150 ± 10	15 ± 1	15 ± 1	375 ± 50	78 ± 5	7.5 ± 0.5	<2	<7	4.4 ± 1.4	50
13-0985	7.7	30	180 ± 11	20 ± 1	16 ± 1	270 ± 50	69 ± 5	8.0 ± 0.5	<2	<7	<2	70
13-0986	4.4	25	100 ± 7	12 ± 1	16 ± 1	400 ± 40	66 ± 5	8.8 ± 0.6	<3	<8	<3	45
13-0989	9.7	31	230 ± 13	21 ± 1	17 ± 1	460 ± 40	70 ± 5	8.2 ± 0.6	<2	<8	5.5 ± 1.3	50
13-0997	9.7	37	260 ± 15	33 ± 2	21 ± 1	520 ± 50	89 ± 6	9.0 ± 0.6	<2	<6	11 ± 1	65

CIVIC CENTER SOILS

Log. No.	Cross α pci/g	Cross β pci/g	Hg ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pb ppm
13-0998	12	44	240 ± 15	31 ± 2	22 ± 1	540 ± 50	93 ± 6	9.2 ± 0.6	<2	<8	6.2 ± 1.3	65
			310									
13-1000	7.2	31	180 ± 10	20 ± 1	17 ± 1	430 ± 50	66 ± 4	7.4 ± 0.5	<2	<6	4.8 ± 1.2	63
13-1016	7.7	26	170 ± 10	17 ± 1	16 ± 1	400 ± 70	72 ± 5	8.5 ± 0.6	<2	<6	<2	6
13-1028	8.9	37	340 ± 20	33 ± 2	20 ± 1	470 ± 70	86 ± 6	8.0 ± 0.6	<3	<7	8.9 ± 1.9	10
13-1034	8.7	35	290 ± 17	30 ± 2	20 ± 1	360 ± 70	85 ± 5	8.3 ± 0.6	<2	<6	4.3 ± 1.5	9
13-1036	8.4	39	280 ± 17	32 ± 2	19 ± 1	450 ± 70	82 ± 5	9.0 ± 0.6	<2	<6	<2	8
13-1037	6.6	29	110 ± 7	14 ± 1	15 ± 1	320 ± 60	69 ± 5	8.1 ± 0.5	<2	<5	<2	7
13-1082	5.2	24	130 ± 8	16 ± 1	14 ± 1	410 ± 70	65 ± 5	6.0 ± 0.4	<3	<5	<3	4
			150									
13-1102	10.6	44	420 ± 25	39 ± 2	22 ± 1	430 ± 60	81 ± 5	8.9 ± 0.6	<3	<6	10 ± 2	7
13-1108	9.5	40	420 ± 25	39 ± 2	21 ± 1	390 ± 60	85 ± 6	8.6 ± 0.6	<3	<5	11 ± 2	8
13-1127	11	40	280 ± 17	43 ± 3	21 ± 1	480 ± 50	86 ± 6	8.3 ± 0.6	<4	<6	14 ± 2	8
13-1135	6.0	28	180 ± 10	17 ± 1	17 ± 1	330 ± 50	68 ± 5	7.7 ± 0.5	<2	<6	<2	8
13-1158	7.5	31	180 ± 10	18 ± 1	17 ± 1	320 ± 50	85 ± 6	11 ± 1	<2	<6	<3	7
13-1178	4.6	24	110 ± 6	17 ± 1	15 ± 1	100 ± 50	64 ± 4	7.2 ± 0.5	<2	<5	3.9 ± 1.3	6
13-1180	15	42	340 ± 20	42 ± 3	20 ± 1	500 ± 70	81 ± 5	7.8 ± 0.5	<3	<6	6.0 ± 2.0	9

CIVIC CENTER SOILS

Log. No.	Gross α pci/g	Gross β pci/g	Hg ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pb ppm
13-1181	8.2	30	290 \pm 17	27 \pm 2	20 \pm 1	500 \pm 50	73 \pm 5	7.7 \pm 0.5	<3	<5	<3	8(
13-1182	4.1	23	90 \pm 5	12 \pm 1	14 \pm 1	260 \pm 50	70 \pm 5	7.9 \pm 0.5	<3	<6	<3	6(
13-1221	10	45	390 \pm 23	48 \pm 3	24 \pm 1	330 \pm 60	86 \pm 6	10 \pm 0.6	<3	<6	14 \pm 2	10(
13-1223	4.2	20	120 \pm 7	14 \pm 1	15 \pm 1	300 \pm 50	72 \pm 5	13 \pm 0.8	<3	<6	<4	5(
13-1234	11	37	330 \pm 20	48 \pm 3	23 \pm 1	500 \pm 60	81 \pm 6	9.1 \pm 0.6	<3	<6	<3	9(
13-1275	7.5	27	170 \pm 10	20 \pm 1	18 \pm 1	300 \pm 60	82 \pm 5	12 \pm 0.8	<2	<6	<3	6(
13-1276	7.3	31	230 \pm 15	26 \pm 2	19 \pm 1	460 \pm 60	77 \pm 5	7.9 \pm 0.5	<2	<5	9.0 \pm 1.4	6(
13-1280	5.5	23	110 \pm 7	12 \pm 1	15 \pm 1	400 \pm 60	64 \pm 4	7.3 \pm 0.5	<3	<5	<3	5(
13-1282	11	40	290 \pm 17	36 \pm 2	23 \pm 1	300 \pm 50	87 \pm 6	8.7 \pm 0.6	<3	<5	13 \pm 2	8(
13-1293	8.2	31	210 \pm 12	20 \pm 1	17 \pm 1	400 \pm 60	77 \pm 5	8.3 \pm 0.5	<3	<6	<3	6(
13-1294	8.6	35	390 \pm 23	31 \pm 2	21 \pm 1	540 \pm 70	72 \pm 6	8.4 \pm 0.6	<3	<6	<4	8(
13-1295	5.7	22	110 \pm 6	10 \pm 1	13 \pm 1	380 \pm 50	59 \pm 4	6.6 \pm 0.4	<2	<4	<2	4(
13-1296	11	43	250 \pm 15	36 \pm 2	21 \pm 1	500 \pm 60	87 \pm 6	8.1 \pm 0.5	<2	<5	9.4 \pm 1.6	8(
13-1301	9.9	32	410 \pm 25	34 \pm 2	22 \pm 1	420 \pm 50	82 \pm 5	9.4 \pm 0.6	<2	<5	12 \pm 2	7(

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CIVIC CENTER SOILS

Log. No.	Gross β pCi/g	Gross β pCi/g	Hg ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pt ppm
84-0165	9.0	39	210 ± 13	44 ± 3	28 ± 2	460 ± 60	98 ± 6	9.5 ± 0.6	<3	<6	11 ± 2	1
84-0166	11	37	250 ± 15	38 ± 2	24 ± 2	450 ± 60	94 ± 6	9.1 ± 0.6	<2	<5	14 ± 2	1
84-0167	8.9	34	150 ± 9	29 ± 2	21 ± 1	490 ± 70	86 ± 6	8.3 ± 0.5	<3	<6	7.0 ± 2.0	1
84-0168	12	44	230 ± 14	41 ± 3	27 ± 2	440 ± 60	92 ± 6	9.2 ± 0.6	<3	<6	13 ± 2	1
84-0169	7.2	30	130 ± 8	26 ± 2	20 ± 1	350 ± 50	78 ± 5	8.7 ± 0.6	<3	<6	5.1 ± 1.5	1
84-0170	12	42	230 ± 14	48 ± 3	29 ± 2	580 ± 70	100 ± 7	9.9 ± 0.6	<3	<6	8.1 ± 1.8	1
84-0171	7.3	37	180 ± 10	35 ± 2	24 ± 1	420 ± 60	92 ± 6	9.5 ± 0.6	<2	<6	8.9 ± 1.6	1
Background Soils*	1.6	7.7	<.05	4.5 ± 0.4	6.5 ± 0.4	200 ± 30	30 ± 5	5.0 ± 0.4	<3	<6	<3	3(

Where Hg sample has two sets of results, the latest results are listed first.

All elements are determined by INAA except Pb (XRF).
*From Black Oak Ridge

BACKGROUND SOILS

<u>vic Center Area</u>	No.	Gross α pCi/g	Gross β pCi/g	Rg ppm	U ppm	Th ppm	Ba ppm	Cr ppm	As ppm	Se ppm	Cd ppm	Ag ppm	Pb ppm
-0748	1.8	1.3	<0.3	.29	3.7 ± 0.4	9.4 ± 0.6	320 ± 45	45 ± 3	4.4 ± 0.3	<2	<5	<2	3.8
-0750	2.6	1.4	<0.3	.34	5.4 ± 0.5	9.7 ± 0.6	410 ± 60	47 ± 4	4.7 ± 0.3	<2	<5	<2	3.3
-0760	3.1	1.9	<0.3	.32	4.5 ± 0.5	10 ± 1	280 ± 60	57 ± 4	5.8 ± 0.4	<2	<5	<2	5.1
-0853	2.9	1.4	<0.3	.11	3.3 ± 0.4	10 ± 1	250 ± 40	49 ± 3	6.7 ± 0.4	<2	<4	<2	5.0
-0857	3.1	1.8	<0.3	.16	3.9 ± 0.4	11 ± 1	300 ± 40	55 ± 4	6.6 ± 0.4	<2	<4	<2	5.7
-0865	2.3	1.3	<0.3	.12	3.4 ± 0.4	11 ± 1	240 ± 45	55 ± 4	5.1 ± 0.4	3.0 ± 1.0	<4	<2	4.0

Table 3

Multi-element Analysis of "Background"
Civic Center Soils

Hg (ppm)	U (ppm)	Th (ppm)	Ba (ppm)	Cr (ppm)	As (ppm)	Se (ppm)	Cd (ppm)	Ag (ppm)	Pb (ppm)
1.	.842	.757	.556	.616	.578	.23	.318	.622	.659
U	.842	1.	.956	.672	.835	.713	.343	.27	.798
Th	.757	.956	1.	.69	.867	.775	.378	.247	.813
Ba	.556	.672	.69	1.	.663	.537	.242	.138	.609
Cr	.616	.835	.867	.663	1.	.728	.244	.029	.812
As	.578	.713	.775	.537	.728	1.	.263	.202	.651
Sc	.23	.343	.378	.242	.244	.263	1.	.243	.335
Cd	.318	.27	.247	.138	.029	.202	.243	1.	.057
Ag	.622	.798	.813	.609	.812	.651	.335	-.057	.697
Pb	.659	.83	.841	.482	.77	.644	.372	.169	.697
							1.		

$$r(.95, 107) = .164$$

Table 4

Correlation Between Soil Elements at the Civic Center¹

¹Less than values not included.

Table 5

PCB (Aroclor 1254 & 1260), Methyl-mercury and
Total Mercury Content in Civic Center Soils

Sample Number	Hg (ppm)	Methyl-mercury (ppm)	PCB's (ppm)
83-0748	.29		<0.1
83-0750	.34		<0.1
83-0760	.32		<0.1
83-0853	.11		<0.1
83-0857	.16		<0.1
83-0865	.12		<0.1
83-1016	170.	0.48	0.8
83-1028	340.	<0.10	1.3
83-1034	290.	0.41	1.4
83-1036	280.	<0.10	1.5
83-1037	110.	0.31	0.5
83-1082	130.	<0.10	0.6
83-1102	420.	0.89	1.7
83-1108	420.	0.13	2.0
83-1158	180.	<0.10	1.0
83-1178	110.	<0.10	0.8
83-1180	340.	<0.10	1.9
83-1181	290.	<0.10	3.2
83-1182	90.	<0.10	0.6
83-1221	390.	<0.10	2.0
83-1223	120.	<0.10	0.4
83-1234	330.	<0.10	1.7
83-1275	170.	<0.10	1.0
83-1276	230.	<0.10	0.9
83-1280	110.	<0.10	0.6
83-1282	290.	<0.10	1.5
83-1293	210.	<0.10	0.6
83-1294	390.	<0.10	1.3
83-1295	110.	<0.10	0.5
83-1296	250.	<0.10	1.5
83-1301	410.	<0.10	1.9
84-0165	210.	<0.10	1.9
84-0166	250.	<0.10	2.0
84-0167	150.	<0.10	1.0
84-0168	230.	<0.10	1.3
84-0169	130.	<0.10	1.1
84-0170	230.	<0.10	1.3
84-0171	180.	<0.10	1.0

*Mean 236. .15 1.3
 *Standard Deviation 103. .16 .38
 *Correlation with Hg 1.0+ .40 .84

*These values are for non-background samples (83-1016 through 84-0171).
 + $r(.95,30) = .296$

Table 6

**Comparison of Contaminated and Background Soils
from the Civic Center**

Average Concentration of the Multi-element Parameters
in Civic Center Soils
(Excluding the less than values from Table 2)

	Hg	U	Th	Ba	Cr	As	Pb
Contaminated	259.*	29.	20.	400.	78.	8.5	74.
Background	0.22	4.0	10.	300.	51.	5.6	45.
Ratio+	1160.	7.	2.	1.4	1.5	1.5	1.7

*Values are parts per million

+Ratio = Contaminated/Background

THE RUST ENGINEERING COMPANY
INTER-OFFICE CORRESPONDENCE

DATE

July 11, 1984

TO

Area and Craft Supervision

FROM

Rust Safety Department

SUBJECT

SAFETY DEPARTMENT RECOMMENDATIONS FOR CIVIC CENTER DIRT REMOVAL

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Listed below are recommendations made by the Rust Safety Department pertaining to the above subject. Work may proceed as scheduled if all recommendations are understood and followed.

1. Health Physics and Industrial Hygiene Requirements:
 - A. Company furnished coveralls, shoes, and gloves shall be worn at all times.
 - B. 3M type Mercury disposable filters shall be available at the job site.
 - C. Personnel shall avoid direct contact with known contaminated soil.
 - D. Wash hands prior to eating, drinking, or smoking.
 - E. No food or drinks shall be allowed inside the roped off area. Drinking water shall be located outside the roped off area.
 - F. Dump truck beds shall be lined with plastic and the dirt covered with plastic before transporting to the dump area.
 - G. Martin Marietta Health Physics and Industrial Hygiene Representatives will monitor the job site continuously. During the course of the job, requirements may be relaxed or made more stringent as conditions warrant.
2. Hard hats and safety glasses shall be worn at all times.
3. Work areas shall be flagged and signs posted every 50 - 75 feet warning others of a construction area. Open excavation areas shall be barricaded at night and blinking lights erected to warn pedestrian and vehicular traffic of a construction area.
4. Orderly housekeeping shall be maintained at all times.
5. Martin Marietta excavation and penetration permit shall be required. All excavation equipment and penetrating tools shall be properly guarded and grounded.
6. Employees exposed to high noise levels shall be protected by approved ear protection.
7. Waste material and debris shall be removed to locations as directed by the Martin Marietta Construction Engineer.

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9. Restrooms, eating facilities, and change facilities shall be designated by the Rust Area Superintendent and the Martin Marietta Construction Engineer.
10. Rust Personnel shall confine themselves to their immediate work area.
11. Employees assigned to work in isolated areas shall have a radio or other means of communications immediately available.
12. Rust personnel requiring first-aid treatment for minor injuries shall report to the Y-12 Medical Department. Personnel requiring more than first-aid treatment shall be taken to the Oak Ridge Hospital Emergency Room upon notification of the Rust Safety Department.
13. If fire, ambulance, or police service is required, call 911 for emergency service. Telephones are located inside the Civic Center that may be utilized for emergencies.
14. If at anytime you have a question pertaining to a safety problem, contact your foreman before proceeding.

W.M.Rea
W. M. Rea
Safety Supervisor

WMR/jh